

FIBRE UTILITY NETWORKS



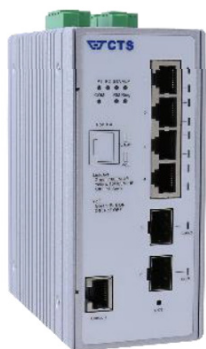
ACTIVE EQUIPMENT PRODUCT CATALOGUE 2018

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INDUSTRIAL NETWORKING

INDUSTRIAL NETWORKING



GIGABIT MANAGED POE SWITCHES

GIGABIT MANAGED POE SWITCHES

LNP-2804GN-SFP-T | 28 PORT MANAGED SWITCH | POE+

- ❖ STP/RSTP/MSTP and Proprietary
- ❖ Industrial Layer 2 Managed
- ❖ 802.1x Port Based, MD5,TLS,TTL
- ❖ Extended Operating Temperature

**Product Specification**

Item	Description
Dimension(mm)	438 x 43.6 x 259.2
Weight(kg)	3.8 Unit
Temperature ranges	-40C - 75C Extended Operating Temperature
Power Consumption	20W System Max POE Budget: 685W @ 48VDC
Ports	4*SFP 100/1000 Ports 24*RJ45 10/100/1000 Ports (30w)
Protocols	IGMPv1/v2, SNMPv1/2c/3,SNMP,SMTP,RMON,HTTP,HTTPS/Telnet, Syslog,SSH,SSL,LLDP, Port trunk,802.1p Qos Cos/TOS/DSCP Priority Queuing, GVRP, Port and IP Binding
Backplane Switching Fabric	56 Gb/s

IPS-3106-SE-PB | 4 PORT MANAGED SWITCH | POE+

- ❖ IEEE802.1Q VLAN for easy network planning
- ❖ LACP/RSTP/MSTP and Fast Ring (Recovery Time < 50ms)
- ❖ Supports Ipv4/Ipv6 and DHCP Option 66/67/82
- ❖ SPQ and WRR
- ❖ Port based rate limit
- ❖ TK.21 Surge Protection standard

**Product Specification**

Item	Description
Dimension(mm)	80 x 110 x 135
Weight(kg)	1.84 Unit
Temperature ranges	-40C - 75C
Power Consumption	135W @ 48VDC
Ports	2*SFP 100/1000 4*RJ45 10/100/1000 Ports (30w) 1*Console port
Protocols	IGMPv1/v2, SNMPv1/2c/3,SNMP,SMTP,MLDv1/v2,HTTP,HTTPS/Telnet, Syslog,802.1X TACACS+
Backplane Switching Fabric	12 Gb/s

LMP-1002G-SFP | 10 PORT MANAGED SWITCH | POE+

- ❖ IEEE802.1Q VLAN for easy network planning
- ❖ STP/RSTP/MSTP and ERPS (Recovery Time < 50ms)
- ❖ Supports Ipv4/Ipv6 and DHCP Option 66/67/82
- ❖ Supports Modbus TCP for remote monitor/control
- ❖ Support RMON and port mirroring

**Product Specification**

Item	Description
Dimension(mm)	54 x 142 x 99
Weight(kg)	1.09 Unit 1.45 Package
Temperature ranges	-10C - 70C
Power Consumption	15W System Max POE Budget: 255W @ 48VDC
Ports	2*SFP 100/1000 Ports 8*RJ45 10/100/1000 Ports (30w)
Protocols	IGMPv1/v2, SNMPv1/2c/3,SNMP,SMTP,RMON,HTTP,HTTPS/Telnet, Syslog,SSH,SSL,LLDP
Backplane Switching Fabric	20 Gb/s

LMP-1002G-SFP-T | 10 PORT MANAGED SWITCH | POE+ | EOT TEMP

- ❖ IEEE802.1Q VLAN for easy network planning
- ❖ STP/RSTP/MSTP and ERPS (Recovery Time < 50ms)
- ❖ Supports Ipv4/Ipv6 and DHCP Option 66/67/82
- ❖ Supports Modbus TCP for remote monitor/control
- ❖ Support RMON and port mirroring

**Product Specification**

Item	Description
Dimension(mm)	54 x 142 x 99
Weight(kg)	1.09 Unit 1.45 Package
Temperature ranges	-40C - 75C Extended Operating Temperature
Power Consumption	15W System Max POE Budget: 255W @ 48VDC
Ports	2*SFP 100/1000 Ports 8*RJ45 10/100/1000 Ports (30w)
Protocols	IGMPv1/v2, SNMPv1/2c/3,SNMP,SMTP,RMON,HTTP,HTTPS/Telnet, Syslog,SSH,SSL,LLDP
Backplane Switching Fabric	20 Gb/s

LMP-1202G-SFP | 12 PORT MANAGED SWITCH | POE+

- ❖ IEEE802.1Q VLAN for easy network planning
- ❖ STP/RSTP/MSTP and ERPS (Recovery Time < 50ms)
- ❖ Supports Ipv4/Ipv6 and DHCP Option 66/67/82
- ❖ Supports Modbus TCP for remote monitor/control
- ❖ Support RMON and port mirroring

**Product Specification**

Item	Description
Dimension(mm)	54 x 142 x 99
Weight(kg)	1.09 Unit 1.45 Package
Temperature ranges	-10C - 70C
Power Consumption	15W System Max POE Budget: 255W @ 48VDC
Ports	2*SFP 100/1000 Ports 10*RJ45 10/100/1000 Ports (30w)
Protocols	IGMPv1/v2, SNMPv1/2c/3,SNMP,SMTP,RMON,HTTP,HTTPS/Telnet, Syslog,SSH,SSL,LLDP
Backplane Switching Fabric	24 Gb/s

LMP-1202G-SFP-T | 12 PORT MANAGED SWITCH | POE+ | EOT TEMP

- ❖ IEEE802.1Q VLAN for easy network planning
- ❖ STP/RSTP/MSTP and ERPS (Recovery Time < 50ms)
- ❖ Supports Ipv4/Ipv6 and DHCP Option 66/67/82
- ❖ Supports Modbus TCP for remote monitor/control
- ❖ Support RMON and port mirroring

**Product Specification**

Item	Description
Dimension(mm)	54 x 142 x 99
Weight(kg)	1.09 Unit 1.45 Package
Temperature ranges	-40C - 75C Extended Operating Temperature
Power Consumption	15W System Max POE Budget: 255W @ 48VDC
Ports	2*SFP 100/1000 Ports 10*RJ45 10/100/1000 Ports (30w)
Protocols	IGMPv1/v2, SNMPv1/2c/3,SNMP,SMTP,RMON,HTTP,HTTPS/Telnet, Syslog,SSH,SSL,LLDP
Backplane Switching Fabric	24 Gb/s

LMP-1204G-SFP | 12 PORT MANAGED SWITCH | POE+

- ❖ IEEE802.1Q VLAN for easy network planning
- ❖ STP/RSTP/MSTP and ERPS (Recovery Time < 50ms)
- ❖ Supports Ipv4/Ipv6 and DHCP Option 66/67/82
- ❖ Supports Modbus TCP for remote monitor/control
- ❖ Support RMON and port mirroring

**Product Specification**

Item	Description
Dimension(mm)	54 x 142 x 99
Weight(kg)	1.09 Unit 1.45 Package
Temperature ranges	-10C - 70C
Power Consumption	15W System Max POE Budget: 255W @ 48VDC
Ports	4*SFP 100/1000 Ports 8*RJ45 10/100/1000 Ports (30w)
Protocols	IGMPv1/v2, SNMPv1/2c/3,SNMP,SMTP,RMON,HTTP,HTTPS/Telnet, Syslog,SSH,SSL,LLDP
Backplane Switching Fabric	24 Gb/s

LMP-1204G-SFP-T | 12 PORT MANAGED SWITCH | POE+ | EOT TEMP

- ❖ IEEE802.1Q VLAN for easy network planning
- ❖ STP/RSTP/MSTP and ERPS (Recovery Time < 50ms)
- ❖ Supports Ipv4/Ipv6 and DHCP Option 66/67/82
- ❖ Supports Modbus TCP for remote monitor/control
- ❖ Support RMON and port mirroring

**Product Specification**

Item	Description
Dimension(mm)	54 x 142 x 99
Weight(kg)	1.09 Unit 1.45 Package
Temperature ranges	-40C - 75C Extended Operating Temperature
Power Consumption	15W System Max POE Budget: 255W @ 48VDC
Ports	4*SFP 100/1000 Ports 8*RJ45 10/100/1000 Ports (30w)
Protocols	IGMPv1/v2, SNMPv1/2c/3,SNMP,SMTP,RMON,HTTP,HTTPS/Telnet, Syslog,SSH,SSL,LLDP
Backplane Switching Fabric	24 Gb/s

INDUSTRIAL NETWORKING



GIGABIT MANAGED SWITCHES

LMX-1002C-SFP | 10 PORT MANAGED SWITCH



- ❖ IEEE802.1Q VLAN for easy network planning
- ❖ STP/RSTP/MSTP and ERPS (Recovery Time < 50ms)
- ❖ Supports Ipv4/Ipv6 and DHCP Option 66/67/82
- ❖ Supports Modbus TCP for remote monitor/control
- ❖ Support RMON and port mirroring

Product Specification

Item	Description
Dimension(mm)	54 x 142 x 99
Weight(kg)	1.0 Unit 1.5 Package
Temperature ranges	-10C - 70C
Power Consumption	15W System Max POE Budget: 255W @ 48VDC
Ports	2*SFP 100/1000 Ports 8*RJ45 10/100/1000 Ports
Protocols	IGMPv1/v2, SNMPv1/2c/3,SNMP,SMTP,RMON,HTTP,HTTPS/Telnet, Syslog,SSH,SSL,LLDP
Backplane Switching Fabric	24 Gb/s

LMX-1002C-SFP-T | 10 PORT MANAGED SWITCH | EOT TEMP



- ❖ IEEE802.1Q VLAN for easy network planning
- ❖ STP/RSTP/MSTP and ERPS (Recovery Time < 50ms)
- ❖ Supports Ipv4/Ipv6 and DHCP Option 66/67/82
- ❖ Supports Modbus TCP for remote monitor/control
- ❖ Support RMON and port mirroring

Product Specification

Item	Description
Dimension(mm)	54 x 142 x 99
Weight(kg)	1.0 Unit 1.5 Package
Temperature ranges	-40C - 75C Extended Operating Temperature
Power Consumption	15W System Max POE Budget: 255W @ 48VDC
Ports	2*SFP 100/1000 Ports 8*RJ45 10/100/1000 Ports
Protocols	IGMPv1/v2, SNMPv1/2c/3,SNMP,SMTP,RMON,HTTP,HTTPS/Telnet, Syslog,SSH,SSL,LLDP
Backplane Switching Fabric	24 Gb/s

LMX-1202G-SFP | 12 PORT MANAGED SWITCH



- ❖ IEEE802.1Q VLAN for easy network planning
- ❖ STP/RSTP/MSTP and ERPS (Recovery Time < 50ms)
- ❖ Supports Ipv4/Ipv6 and DHCP Option 66/67/82
- ❖ Supports Modbus TCP for remote monitor/control
- ❖ Support RMON and port mirroring

Product Specification

Item	Description
Dimension(mm)	54 x 142 x 99
Weight(kg)	1.13 Unit 1.36 Package
Temperature ranges	-10C - 70C
Power Consumption	15W System Max POE Budget: 255W @ 48VDC
Ports	2*SFP 100/1000 Ports 10*RJ45 10/100/1000 Ports
Protocols	IGMPv1/v2, SNMPv1/2c/3,SNMP,SMTP,RMON,HTTP,HTTPS/Telnet, Syslog,SSH,SSL,LLDP
Backplane Switching Fabric	24 Gb/s

LMX-1202G-SFP-T | 12 PORT MANAGED SWITCH | EOT TEMP



- ❖ IEEE802.1Q VLAN for easy network planning
- ❖ STP/RSTP/MSTP and ERPS (Recovery Time < 50ms)
- ❖ Supports Ipv4/Ipv6 and DHCP Option 66/67/82
- ❖ Supports Modbus TCP for remote monitor/control
- ❖ Support RMON and port mirroring

Product Specification

Item	Description
Dimension(mm)	54 x 142 x 99
Weight(kg)	1.13 Unit 1.36 Package
Temperature ranges	-40C - 75C Extended Operating Temperature
Power Consumption	15W System Max POE Budget: 255W @ 48VDC
Ports	2*SFP 100/1000 Ports 10*RJ45 10/100/1000 Ports
Protocols	IGMPv1/v2, SNMPv1/2c/3,SNMP,SMTP,RMON,HTTP,HTTPS/Telnet, Syslog,SSH,SSL,LLDP
Backplane Switching Fabric	24 Gb/s

LMX-1204G-SFP | 12 PORT MANAGED SWITCH



- ❖ IEEE802.1Q VLAN for easy network planning
- ❖ STP/RSTP/MSTP and ERPS (Recovery Time < 50ms)
- ❖ Supports Ipv4/Ipv6 and DHCP Option 66/67/82
- ❖ Supports Modbus TCP for remote monitor/control
- ❖ Support RMON and port mirroring

Product Specification

Item	Description
Dimension(mm)	54 x 142 x 99
Weight(kg)	1.13 Unit 1.36 Package
Temperature ranges	-10C - 70C
Power Consumption	15W System Max POE Budget: 255W @ 48VDC
Ports	4*SFP 100/1000 Ports 8*RJ45 10/100/1000 Ports
Protocols	IGMPv1/v2, SNMPv1/2c/3, SNMP, SMTP, RMON, HTTP, HTTPS/Telnet, Syslog, SSH, SSL, LLDP
Backplane Switching Fabric	24 Gb/s

LMX-1204G-SFP-T | 12 PORT MANAGED SWITCH | EOT TEMP



- ❖ IEEE802.1Q VLAN for easy network planning
- ❖ STP/RSTP/MSTP and ERPS (Recovery Time < 50ms)
- ❖ Supports Ipv4/Ipv6 and DHCP Option 66/67/82
- ❖ Supports Modbus TCP for remote monitor/control
- ❖ Support RMON and port mirroring

Product Specification

Item	Description
Dimension(mm)	54 x 142 x 99
Weight(kg)	1.13 Unit 1.36 Package
Temperature ranges	-40C - 75C Extended Operating Temperature
Power Consumption	15W System Max POE Budget: 255W @ 48VDC
Ports	4*SFP 100/1000 Ports 8*RJ45 10/100/1000 Ports
Protocols	IGMPv1/v2, SNMPv1/2c/3, SNMP, SMTP, RMON, HTTP, HTTPS/Telnet, Syslog, SSH, SSL, LLDP
Backplane Switching Fabric	24 Gb/s

INDUSTRIAL NETWORKING



GIGABIT UNMANAGED POE SWITCHES

GIGABIT UNMANAGED POE SWITCHES

LNP-2602G-SFP | 24 PORT UNMANAGED SWITCH | POE+

- ❖ Supports MDI/MDI-X function
- ❖ 8K MAC Address Table
- ❖ 9.6Kbytes Jumbo Frame Support
- ❖ Surge and ESD Protection
- ❖ Redundant Power Input Design

**Product Specification**

Item	Description
Dimension(mm)	440 x 44 x 200
Weight(kg)	2.72 Unit 3.63 Package
Temperature ranges	-10C - 70C
Power Consumption	24W System Max POE Budget: 720W @ 48VDC
Ports	2*SFP 100/1000 Ports 24*RJ45 10/100/1000 Ports (30w)
Standards	IEEE 802.3 10BaseTx Ethernet, IEEE 802.3u 100BaseTx Fast Ethernet, IEEE 802.3ab 1000BaseTx, IEEE 802.3z Gigabit Fiber, IEEE 802.3at POE+
Backplane Switching Fabric	56 Gb/s

LNP-2602G-SFP-T | 24 PORT UNMANAGED SWITCH | POE+ | EOT TEMP

- ❖ Supports MDI/MDI-X function
- ❖ 8K MAC Address Table
- ❖ 9.6Kbytes Jumbo Frame Support
- ❖ Surge and ESD Protection
- ❖ Redundant Power Input Design

**Product Specification**

Item	Description
Dimension(mm)	440 x 44 x 200
Weight(kg)	2.72 Unit 3.63 Package
Temperature ranges	-40C - 75C Extended Operating Temperature
Power Consumption	24W System Max POE Budget: 720W @ 48VDC
Ports	2*SFP 100/1000 Ports 24*RJ45 10/100/1000 Ports (30w)
Standards	IEEE 802.3 10BaseTx Ethernet, IEEE 802.3u 100BaseTx Fast Ethernet, IEEE 802.3ab 1000BaseTx, IEEE 802.3z Gigabit Fiber, IEEE 802.3at POE+
Backplane Switching Fabric	56 Gb/s

LNP-0702G-SFP | 7 PORT UNMANAGED SWITCH | POE+



- ❖ Supports MDI/MDI-X function
- ❖ 8K MAC Address Table
- ❖ 9.6Kbytes Jumbo Frame Support
- ❖ Surge and ESD Protection
- ❖ Redundant Power Input Design



Product Specification

Item	Description
Dimension(mm)	30 x 142 x 99
Weight(kg)	0.45 Unit 0.68 Package
Temperature ranges	-10C - 70C
Power Consumption	110W @ 48VDC 130W @ 51-55VDC
Ports	2*SFP 100/1000 4*10/100/1000 Copper (30w) 1 *10/100/1000 Copper
Standards	IEEE 802.3 10BaseTx Ethernet, IEEE 802.3u 100BaseTx Fast Ethernet, IEEE 802.3ab 1000BaseTx, IEEE 802.3z Gigabit Fiber, IEEE 802.3at POE+
Backplane Switching Fabric	14 Gb/s

LNP-0702G-SFP-T | 7 PORT UNMANAGED SWITCH | POE+ | EOT TEMP



- ❖ Supports MDI/MDI-X function
- ❖ 8K MAC Address Table
- ❖ 9.6Kbytes Jumbo Frame Support
- ❖ Surge and ESD Protection
- ❖ Redundant Power Input Design



Product Specification

Item	Description
Dimension(mm)	30 x 142 x 99
Weight(kg)	0.45 Unit 0.68 Package
Temperature ranges	-40C - 75C Extended Operating Temperature
Power Consumption	110W @ 48VDC 130W @ 51-55VDC
Ports	2*SFP 100/1000 Ports 4*RJ45 10/100/1000 Ports (30w) 1*RJ45 10/100/1000 Port
Standards	IEEE 802.3 10BaseTx Ethernet, IEEE 802.3u 100BaseTx Fast Ethernet, IEEE 802.3ab 1000BaseTx, IEEE 802.3z Gigabit Fiber, IEEE 802.3at POE+
Backplane Switching Fabric	14 Gb/s

LNP-1002G-SFP | 10 PORT UNMANAGED SWITCH | POE+

- ❖ Supports MDI/MDI-X function
- ❖ 8K MAC Address Table
- ❖ 9.6Kbytes Jumbo Frame Support
- ❖ Surge and ESD Protection
- ❖ Redundant Power Input Design

Product Specification

Item	Description
Dimension(mm)	54 x 142 x 99
Weight(kg)	1.09 Unit 1.45 Package
Temperature ranges	-10C - 70C
Power Consumption	10W System POE Budget: 210W @ 48VDC POE Budget: 250W @ 51-55VDC
Ports	2*SFP 100/1000 Ports 8*RJ45 10/100/1000 Ports (30w)
Standards	IEEE 802.3 10BaseTx Ethernet, IEEE 802.3u 100BaseTx Fast Ethernet, IEEE 802.3ab 1000BaseTx, IEEE 802.3z Gigabit Fiber, IEEE 802.3at POE+
Backplane Switching Fabric	20 Gb/s

LNP-1002G-SFP-T | 10 PORT UNMANAGED SWITCH | POE+ | EOT TEMP

- ❖ Supports MDI/MDI-X function
- ❖ 8K MAC Address Table
- ❖ 9.6Kbytes Jumbo Frame Support
- ❖ Surge and ESD Protection
- ❖ Redundant Power Input Design

Product Specification

Item	Description
Dimension(mm)	54 x 142 x 99
Weight(kg)	1.09 Unit 1.45 Package
Temperature ranges	-40C - 75C Extended Operating Temperature
Power Consumption	10W System POE Budget: 210W @ 48VDC POE Budget: 250W @ 51-55VDC
Ports	2*SFP 100/1000 Ports 8*RJ45 10/100/1000 Ports (30w)
Standards	IEEE 802.3 10BaseTx Ethernet, IEEE 802.3u 100BaseTx Fast Ethernet, IEEE 802.3ab 1000BaseTx, IEEE 802.3z Gigabit Fiber, IEEE 802.3at POE+
Backplane Switching Fabric	20 Gb/s

LNP-1202G-SFP | 16 PORT UNMANAGED SWITCH | POE+

- ❖ Supports MDI/MDI-X function
- ❖ 8K MAC Address Table
- ❖ 12.2 Kbytes Jumbo Frame Support
- ❖ Surge and ESD Protection
- ❖ Redundant Power Input Design
- ❖ High Port Density

**Product Specification**

Item	Description
Dimension(mm)	59 x 142 x 99
Weight(kg)	1.0 Unit 1.22 Package
Temperature ranges	-10C - 70C
Power Consumption	10W System POE Budget: 215W @ 48VDC POE Budget: 255W @ 51-55VDC
Ports	2*SFP 100/1000 10*10/100/1000 Copper (30w)
Standards	IEEE 802.3 10BaseTx Ethernet, IEEE 802.3u 100BaseTx Fast Ethernet, IEEE 802.3ab 1000BaseTx, IEEE 802.3z Gigabit Fiber, IEEE 802.3at POE+
Backplane Switching Fabric	32 Gb/s

LNP-1202G-SFP-T | 16 PORT UNMANAGED SWITCH | POE+ | EOT TEMP

- ❖ Supports MDI/MDI-X function
- ❖ 8K MAC Address Table
- ❖ 12.2 Kbytes Jumbo Frame Support
- ❖ Surge and ESD Protection
- ❖ Redundant Power Input Design
- ❖ High Port Density

**Product Specification**

Item	Description
Dimension(mm)	59 x 142 x 99
Weight(kg)	1.0 Unit 1.22 Package
Temperature ranges	-40C - 75C Extended Operating Temperature
Power Consumption	10W System POE Budget: 215W @ 48VDC POE Budget: 255W @ 51-55VDC
Ports	2*SFP 100/1000 Ports 10*RJ45 10/100/1000 Ports (30w)
Standards	IEEE 802.3 10BaseTx Ethernet, IEEE 802.3u 100BaseTx Fast Ethernet, IEEE 802.3ab 1000BaseTx, IEEE 802.3z Gigabit Fiber, IEEE 802.3at POE+
Backplane Switching Fabric	32 Gb/s

LNP-1604G-SFP | 16 PORT UNMANAGED SWITCH | POE+

- ❖ Supports MDI/MDI-X function
- ❖ 8K MAC Address Table
- ❖ 12.2 Kbytes Jumbo Frame Support
- ❖ Surge and ESD Protection
- ❖ Redundant Power Input Design
- ❖ High Port Density

**Product Specification**

Item	Description
Dimension(mm)	59 x 142 x 99
Weight(kg)	1.0 Unit 1.22 Package
Temperature ranges	-10C - 70C
Power Consumption	16W System POE Budget: 320W @ 48VDC POE Budget: 376W @ 51-55VDC
Ports	4*SFP 100/1000 Ports 12*RJ45 10/100/1000 Ports (30w)
Standards	IEEE 802.3 10BaseTx Ethernet, IEEE 802.3u 100BaseTx Fast Ethernet, IEEE 802.3ab 1000BaseTx, IEEE 802.3z Gigabit Fiber, IEEE 802.3at POE+
Backplane Switching Fabric	32 Gb/s

LNP-1604G-SFP-T | 16 PORT UNMANAGED SWITCH | POE+ | EOT TEMP

- ❖ Supports MDI/MDI-X function
- ❖ 8K MAC Address Table
- ❖ 12.2 Kbytes Jumbo Frame Support
- ❖ Surge and ESD Protection
- ❖ Redundant Power Input Design
- ❖ High Port Density

**Product Specification**

Item	Description
Dimension(mm)	59 x 142 x 99
Weight(kg)	1.0 Unit 1.22 Package
Temperature ranges	-40C - 75C Extended Operating Temperature
Power Consumption	16W System POE Budget: 320W @ 48VDC POE Budget: 376W @ 51-55VDC
Ports	4*SFP 100/1000 Ports 12*RJ45 10/100/1000 Ports (30w)
Standards	IEEE 802.3 10BaseTx Ethernet, IEEE 802.3u 100BaseTx Fast Ethernet, IEEE 802.3ab 1000BaseTx, IEEE 802.3z Gigabit Fiber, IEEE 802.3at POE+
Backplane Switching Fabric	32 Gb/s

INDUSTRIAL NETWORKING



GIGABIT UNMANAGED SWITCHES

LNX-0702C-SFP | 7 PORT UNMANAGED SWITCH



- ❖ Supports MDI/MDI-X function
- ❖ 8K MAC Address Table
- ❖ 9.6Kbytes Jumbo Frame Support
- ❖ Surge and ESD Protection
- ❖ Redundant Power Input Design

Product Specification

Item	Description
Dimension(mm)	30 x 142 x 99
Weight(kg)	0.59 Unit 0.77 Package
Temperature ranges	-10C - 70C
Power Consumption	6W @ 48VDC
Ports	2*SFP 100/1000 Ports 5*RJ45 10/100/1000 Ports
Standards	IEEE 802.3 10BaseTx Ethernet, IEEE 802.3u 100BaseTx Fast Ethernet, IEEE 802.3ab 1000BaseTx, IEEE 802.3z Gigabit Fiber, IEEE 802.3at POE+
Backplane Switching Fabric	14 Gb/s

LNX-0702C-SFP-T | 7 PORT UNMANAGED SWITCH | EOT TEMP



- ❖ Supports MDI/MDI-X function
- ❖ 8K MAC Address Table
- ❖ 9.6Kbytes Jumbo Frame Support
- ❖ Surge and ESD Protection
- ❖ Redundant Power Input Design

Product Specification

Item	Description
Dimension(mm)	30 x 142 x 99
Weight(kg)	0.59 Unit 0.77 Package
Temperature ranges	-40C - 75C Extended Operating Temperature
Power Consumption	6W @ 48VDC
Ports	2*SFP 100/1000 Ports 5*RJ45 10/100/1000 Ports
Standards	IEEE 802.3 10BaseTx Ethernet, IEEE 802.3u 100BaseTx Fast Ethernet, IEEE 802.3ab 1000BaseTx, IEEE 802.3z Gigabit Fiber, IEEE 802.3at POE+
Backplane Switching Fabric	14 Gb/s

LNX-1002G-SFP | 10 PORT UNMANAGED SWITCH



- ❖ Supports MDI/MDI-X function
- ❖ 8K MAC Address Table
- ❖ 9.6Kbytes Jumbo Frame Support
- ❖ Surge and ESD Protection
- ❖ Redundant Power Input Design

Product Specification

Item	Description
Dimension(mm)	46 x 142 x 99
Weight(kg)	1.13 Unit 1.36 Package
Temperature ranges	-10C - 70C
Power Consumption	10W @ 48VDC
Ports	2*SFP 100/1000 8*RJ45 10/100/1000 Ports
Standards	IEEE 802.3 10BaseTx Ethernet, IEEE 802.3u 100BaseTx Fast Ethernet, IEEE 802.3ab 1000BaseTx, IEEE 802.3z Gigabit Fiber, IEEE 802.3at POE+
Backplane Switching Fabric	20 Gb/s

LNX-1002G-SFP-T | 10 PORT UNMANAGED SWITCH | EOT TEMP



- ❖ Supports MDI/MDI-X function
- ❖ 8K MAC Address Table
- ❖ 9.6Kbytes Jumbo Frame Support
- ❖ Surge and ESD Protection
- ❖ Redundant Power Input Design

Product Specification

Item	Description
Dimension(mm)	46 x 142 x 99
Weight(kg)	1.13 Unit 1.36 Package
Temperature ranges	-40C - 75C Extended Operating Temperature
Power Consumption	10W @ 48VDC
Ports	2*SFP 100/1000 8*RJ45 10/100/1000 Ports
Standards	IEEE 802.3 10BaseTx Ethernet, IEEE 802.3u 100BaseTx Fast Ethernet, IEEE 802.3ab 1000BaseTx, IEEE 802.3z Gigabit Fiber, IEEE 802.3at POE+
Backplane Switching Fabric	20 Gb/s

LNX-1202G-SFP | 12 PORT UNMANAGED SWITCH



- ❖ Supports MDI/MDI-X function
- ❖ 8K MAC Address Table
- ❖ 9.6Kbytes Jumbo Frame Support
- ❖ Surge and ESD Protection
- ❖ Redundant Power Input Design

Product Specification

Item	Description
Dimension(mm)	46 x 142 x 99
Weight(kg)	1.13 Unit 1.36 Package
Temperature ranges	-10C - 70C
Power Consumption	10W @ 48VDC
Ports	2*SFP 100/1000 10*RJ45 10/100/1000 Ports
Standards	IEEE 802.3 10BaseTx Ethernet, IEEE 802.3u 100BaseTx Fast Ethernet, IEEE 802.3ab 1000BaseTx, IEEE 802.3z Gigabit Fiber, IEEE 802.3at POE+
Backplane Switching Fabric	24 Gb/s

LNX-1202G-SFP-T | 12 PORT UNMANAGED SWITCH | EOT TEMP



- ❖ Supports MDI/MDI-X function
- ❖ 8K MAC Address Table
- ❖ 9.6Kbytes Jumbo Frame Support
- ❖ Surge and ESD Protection
- ❖ Redundant Power Input Design

Product Specification

Item	Description
Dimension(mm)	46 x 142 x 99
Weight(kg)	1.13 Unit 1.36 Package
Temperature ranges	-40C - 75C Extended Operating Temperature
Power Consumption	10W @ 48VDC
Ports	2*SFP 100/1000 10*RJ45 10/100/1000 Ports
Standards	IEEE 802.3 10BaseTx Ethernet, IEEE 802.3u 100BaseTx Fast Ethernet, IEEE 802.3ab 1000BaseTx, IEEE 802.3z Gigabit Fiber, IEEE 802.3at POE+
Backplane Switching Fabric	24 Gb/s

LNP-1604G-SFP | 16 PORT UNMANAGED SWITCH



- ❖ Supports MDI/MDI-X function
- ❖ 8K MAC Address Table
- ❖ 12.2 Kbytes Jumbo Frame Support
- ❖ Surge and ESD Protection
- ❖ Redundant Power Input Design
- ❖ High Port Density

Product Specification

Item	Description
Dimension(mm)	59 x 142 x 99
Weight(kg)	1.0 Unit 1.22 Package
Temperature ranges	-10C - 70C
Power Consumption	16W @ 48VDC
Ports	4*SFP 100/1000 Ports 12*RJ45 10/100/1000 Ports
Standards	IEEE 802.3 10BaseTx Ethernet, IEEE 802.3u 100BaseTx Fast Ethernet, IEEE 802.3ab 1000BaseTx, IEEE 802.3z Gigabit Fiber, IEEE 802.3at POE+
Backplane Switching Fabric	32 Gb/s

LNP-1604G-SFP | 16 PORT UNMANAGED SWITCH | EOT TEMP



- ❖ Supports MDI/MDI-X function
- ❖ 8K MAC Address Table
- ❖ 12.2 Kbytes Jumbo Frame Support
- ❖ Surge and ESD Protection
- ❖ Redundant Power Input Design
- ❖ High Port Density

Product Specification

Item	Description
Dimension(mm)	59 x 142 x 99
Weight(kg)	1.0 Unit 1.22 Package
Temperature ranges	-40C - 75C Extended Operating Temperature
Power Consumption	16W @ 48VDC
Ports	4*SFP 100/1000 Ports 12*RJ45 10/100/1000 Ports
Standards	IEEE 802.3 10BaseTx Ethernet, IEEE 802.3u 100BaseTx Fast Ethernet, IEEE 802.3ab 1000BaseTx, IEEE 802.3z Gigabit Fiber, IEEE 802.3at POE+
Backplane Switching Fabric	32 Gb/s

INDUSTRIAL NETWORKING



MEDIA CONVERTERS

MEDIA CONVERTERS

IMP-C1000-SFP | 10/100/1000Tx to GIGABIT FIBRE CONVERTER | POE+



- ❖ FCC Class A, CE Class A
- ❖ Store and forward switch architecture
- ❖ Jumbo Frame 10Kbytes
- ❖ LEDs: Power | TP Link | Fiber Link
- ❖ Compact industrial grade design



Product Specification

Item	Description
Dimension(mm)	94 x 70 x 26
Weight(kg)	0.6 Unit
Temperature ranges	-10C - 70C
Power Consumption	3W System 30W POE @ 48VDC
Ports	1*SFP 100/1000 1*10/100/1000 Copper
Standards	IEEE 802.3 10BaseTx Ethernet, IEEE 802.3u 100BaseTx Fast Ethernet, IEEE 802.3ab 1000BaseTx, IEEE 802.3z Gigabit Fiber, IEEE 802.3at, IEEE 802.3af
Data Transfer Rate	2 Gb/s full duplex

IMC-C1000-SFP | 10/100/1000Tx to GIGABIT FIBRE CONVERTER



- ❖ FCC Class A, CE Class A
- ❖ Store and forward switch architecture
- ❖ Jumbo Frame 10Kbytes
- ❖ LEDs: Power | TP Link | Fiber Link
- ❖ Compact industrial grade design

Product Specification

Item	Description
Dimension(mm)	94 x 70 x 26
Weight(kg)	0.6 Unit
Temperature ranges	-10C - 70C
Power Consumption	1.8W Max @ 48VDC
Ports	1*SFP 100/1000 1*10/100/1000 Copper
Standards	IEEE 802.3 10BaseTx Ethernet, IEEE 802.3u 100BaseTx Fast Ethernet, IEEE 802.3ab 1000BaseTx, IEEE 802.3z Gigabit Fiber
Data Transfer Rate	2 Gb/s full duplex

IPC-3014-POE++ | 10/100/1000Tx to GIGABIT FIBRE CONVERTER | POE++



- ❖ Fibre Backup Mode (A and B)
- ❖ K.21 Surge immunity standard
- ❖ Jumbo Frame 9Kbytes
- ❖ LEDs: Power | TP Link | Fiber Link
- ❖ Compact industrial grade aluminium design
- ❖ Dual Power Input

Product Specification



Item	Description
Dimension(mm)	36 x 110 x 135
Weight(kg)	0.64 Unit
Temperature ranges	-40C - 75C
Power Consumption	96W total @ 48VDC
Ports	2*SFP 100/1000 1*RJ45 10/100/1000 30W POE Port 1*RJ45 10/100/1000 60W POE Port
Standards	IEEE 802.3 10BaseTx Ethernet, IEEE 802.3u 100BaseTx Fast Ethernet, IEEE 802.3ab 1000BaseTx, IEEE 802.3z Gigabit Fiber, IEEE 802.3at, IEEE 802.3af
Data Transfer Rate	4 Gb/s full duplex

IPC-3014 | 10/100/1000Tx to GIGABIT FIBRE CONVERTER | POE+



- ❖ Fibre Backup Mode (A and B)
- ❖ K.21 Surge immunity standard
- ❖ Jumbo Frame 9Kbytes
- ❖ LEDs: Power | TP Link | Fiber Link
- ❖ Compact industrial grade aluminium design
- ❖ Dual Power Input

Product Specification



Item	Description
Dimension(mm)	36 x 110 x 135
Weight(kg)	0.64 Unit
Temperature ranges	-40C - 75C
Power Consumption	66W total @ 48VDC
Ports	2*SFP 100/1000 2*RJ45 10/100/1000 30W POE Ports
Standards	IEEE 802.3 10BaseTx Ethernet, IEEE 802.3u 100BaseTx Fast Ethernet, IEEE 802.3ab 1000BaseTx, IEEE 802.3z Gigabit Fiber, IEEE 802.3at, IEEE 802.3af
Data Transfer Rate	4 Gb/s full duplex

IAC-3014 | 10/100/1000Tx to GIGABIT FIBRE CONVERTER



- ❖ Fibre Backup Mode
- ❖ Store and forward switch architecture
- ❖ Jumbo Frame 9Kbytes
- ❖ Auto and Force modes
- ❖ Compact industrial grade aluminium design

Product Specification

Item	Description
Dimension(mm)	94 x 70 x 26
Weight(kg)	0.58 Unit
Temperature ranges	-10C - 70C
Power Consumption	3.5 ~ 4.8W 12-48VDC
Ports	2*SFP 100/1000 2*RJ45 10/100/1000 ports
Standards	IEEE 802.3 10BaseTx Ethernet, IEEE 802.3u 100BaseTx Fast Ethernet, IEEE 802.3ab 1000BaseTx
Data Transfer Rate	4 Gb/s full duplex

INDUSTRIAL NETWORKING



GBIC/SFP MODULES

SFP-M | 550M MULTIMODE GIGABIT SFP TRANSCEIVER

- ❖ 1.25Gbps, NRZ
- ❖ 550M Range
- ❖ LC-Multimode
- ❖ 850nm
- ❖ 5 Year Warranty
- ❖ Can be encoded to spec

Product Specification

Item	Description
Dimension(mm)	13.7 x 56.5 x 8.95
Output Power	-9.5 ~ +1dBm
Temperature ranges	0C - 70C
Power Consumption	3.1-3.5V 200mA
Interface	Duplex LC connector
Standards	IEEE 802.3z Gigabit Fibre
Data Transfer Rate	Fibre Channel link at 1.06Gbps

SFP-M2 | 2KM MULTIMODE GIGABIT SFP TRANSCEIVER

- ❖ 1.25Gbps, NRZ
- ❖ 2km Range
- ❖ LC-Multimode
- ❖ 1310nm
- ❖ 5 Year Warranty
- ❖ Can be encoded to spec

Product Specification

Item	Description
Dimension(mm)	13.7 x 56.5 x 8.95
Output Power	-9.5 ~ +1dBm
Temperature ranges	0C - 70C
Power Consumption	3.1-3.5V 200mA
Interface	Duplex LC connector
Standards	IEEE 802.3z Gigabit Fibre
Data Transfer Rate	Fibre Channel link at 1.06Gbps

SFP-S10/20/40/60/80/120 | 10-120KM SINGLE MODE GIGABIT TRANSCEIVER

- ❖ 1.25Gbps, NRZ
- ❖ 10-120KM Range
- ❖ LC-Multimode
- ❖ S10/20/40:1310nm | S60/80/120:1550nm
- ❖ 5 Year Warranty
- ❖ Can be encoded to spec

SFP-S10



SFP-S20



SFP-40



SFP-S60



SFP-S80



SFP-S120



*ALL MODELS ARE AVAILABLE WITH EXTENDED TEMPERATURE RATING (T).

Product Specification

Item	Description
Dimension(mm)	13.7 x 56.5 x 8.95
Output Power	-9.5 ~ +1dBm
Temperature ranges	0C - 70C
Power Consumption	3.1-3.5V 200mA
Interface	Duplex LC connector
Standards	IEEE 802.3z Gigabit Fibre
Data Transfer Rate	Fibre Channel link at 1.06Gbps

SFP-10G-M | 300M MULTIMODE GIGABIT SFP TRANSCEIVER



- ❖ 10.3125 Gbps
- ❖ 300M Range
- ❖ LC-Multimode
- ❖ 850nm
- ❖ 5 Year Warranty
- ❖ Can be encoded to spec

Product Specification

Item	Description
Dimension(mm)	13.7 x 56.5 x 8.95
Output Power	-6.5 ~ +1dBm
Temperature ranges	0C - 70C
Power Consumption	3.13-3.46V 800mA
Interface	Duplex LC connector
Standards	IEEE 802.3ae 10GBASE-SR
Data Transfer Rate	10GE Storage, 8G Fiber Channel

SFP-10G-S10/20/40/60/80 | 10-120KM SINGLE MODE 10G TRANSCEIVER

- ❖ 10.3125 Gbps
- ❖ 10-80km Range
- ❖ LC-Multimode
- ❖ S10:1310nm | S40/80:1550nm
- ❖ 5 Year Warranty
- ❖ Can be encoded to spec

SFP-10G-S10



SFP-10G-S40



SFP-10G-80



*ALL MODELS ARE AVAILABLE WITH EXTENDED TEMPERATURE RATING (T).

Product Specification

Item	Description
Dimension(mm)	13.7 x 56.5 x 8.95
Output Power	-9.5 ~ +1dBm
Temperature ranges	0C - 70C
Power Consumption	3.1-3.5V 200mA
Interface	Duplex LC connector
Standards	IEEE 802.3z Gigabit Fibre
Data Transfer Rate	Fibre Channel link at 1.06Gbps

NETWORKING AND FTTX

NETWORKING AND FTTX



MANAGED FIBRE SWITCHES

MANAGED FIBRE SWITCHES

FOS-3148 | 48 PORT GIGABIT MANAGED FIBRE ACCESS SWITCH



- ❖ STP/RSTP
- ❖ Policy and Shaping Rate Limit
- ❖ ACL Based on Physical port
- ❖ Multicast VLAN registration

Product Specification

Item	Description
Dimension(mm)	440 x 205 x 44
Weight(kg)	3.04 Unit
Temperature ranges	0C - 50C
Power Consumption	220V 30W Max DC Input 48V
Ports	44*SFP 100/1000 4*10/100/1000 Combo Ports 1*Console Port RS-232
Standards	IEEE 802.3 10BaseTx Ethernet, IEEE 802.3u 100BaseTx Fast Ethernet, IEEE 802.3ab 1000BaseTx, IEEE 802.3z Gigabit Fiber IEEE 802.3x Flow Control IEEE802.1ad Link Aggregation (LACP) IEEE 802.1ab LLDP
Data Transfer Rate	96 Gb/s full duplex

FOS-3128 | 28 PORT GIGABIT MANAGED FIBRE ACCESS SWITCH



- ❖ STP/RSTP
- ❖ Policy and Shaping Rate Limit
- ❖ ACL Based on Physical port
- ❖ Multicast VLAN registration

Product Specification

Item	Description
Dimension(mm)	440 x 205 x 44
Weight(kg)	3.04 Unit
Temperature ranges	0C - 50C
Power Consumption	220V 30W Max DC Input 48V
Ports	24*SFP 100/1000 4*10/100/1000 Combo Ports 1*Console Port RS-232
Standards	IEEE 802.3 10BaseTx Ethernet, IEEE 802.3u 100BaseTx Fast Ethernet, IEEE 802.3ab 1000BaseTx, IEEE 802.3z Gigabit Fiber IEEE 802.3x Flow Control IEEE802.1ad Link Aggregation (LACP) IEEE 802.1ab LLDP
Data Transfer Rate	56 Gb/s full duplex

FOS-3114 | 14 PORT GIGABIT MANAGED FIBRE ACCESS SWITCH

- ❖ STP/RSTP
- ❖ Policy and Shaping Rate Limit
- ❖ ACL Based on Physical port
- ❖ Multicast VLAN registration
- ❖ Ideal for small FTTx deployment
- ❖ DHCP Provisioning

Product Specification

Item	Description
Dimension(mm)	440 x 205 x 44
Weight(kg)	3.04 Unit
Temperature ranges	0C - 50C
Power Consumption	220V 30W Max DC Input 48V
Ports	12*SFP 100/1000 2*10/100/1000 Combo Ports 1*Console Port RS-232
Standards	IEEE 802.3 10BaseTx Ethernet, IEEE 802.3u 100BaseTx Fast Ethernet, IEEE 802.3ab 1000BaseTx, IEEE 802.3z Gigabit Fiber IEEE 802.3x Flow Control IEEE802.1ad Link Aggregation (LACP) IEEE 802.1ab LLDP
Data Transfer Rate	28 Gb/s full duplex

FOS-3110 | 10 PORT GIGABIT MANAGED FIBRE ACCESS SWITCH

- ❖ STP/RSTP
- ❖ Policy and Shaping Rate Limit
- ❖ ACL Based on Physical port
- ❖ Multicast VLAN registration
- ❖ Ideal for small FTTx deployment
- ❖ DHCP Provisioning

Product Specification

Item	Description
Dimension(mm)	210 x 235 x 44
Weight(kg)	1.5 Unit
Temperature ranges	0C - 50C
Power Consumption	220V 12W Max
Ports	8*SFP 100/1000 2*10/100/1000 Combo Ports 1*Console Port RS-232
Standards	IEEE 802.3 10BaseTx Ethernet, IEEE 802.3u 100BaseTx Fast Ethernet, IEEE 802.3ab 1000BaseTx, IEEE 802.3z Gigabit Fiber IEEE 802.3x Flow Control IEEE802.1ad Link Aggregation (LACP) IEEE 802.1ab LLDP
Data Transfer Rate	20 Gb/s full duplex

FOS-5126 | 28 PORT 10G MANAGED FIBRE ACCESS SWITCH



- ❖ STP/RSTP
- ❖ Policy and Shaping Rate Limit
- ❖ ACL Based on Physical port
- ❖ Multicast VLAN registration
- ❖ High Speed Fttx Backhaul

Product Specification

Item	Description
Dimension(mm)	210 x 235 x 44
Weight(kg)	1.5 Unit
Temperature ranges	0C - 50C
Power Consumption	220V 12W Max
Ports	20*SFP 100/1000 Ports 4*10/100/1000 Combo Ports 2*10G SFP Uplink Ports1*Console Port RS-232
Standards	IEEE 802.3 10BaseTx Ethernet, IEEE 802.3u 100BaseTx Fast Ethernet, IEEE 802.3ab 1000BaseTx, IEEE 802.3z Gigabit Fiber IEEE 802.3x Flow Control IEEE802.1ad Link Aggregation (LACP) IEEE 802.1ab LLDP
Data Transfer Rate	68 Gb/s full duplex

NETWORKING AND FTTX



MANAGED POE SWITCHES

MANAGED POE SWITCHES

EPS-3128 | 28 PORT GIGABIT MANAGED L2+ SWITCH



- ❖ STP/RSTP
- ❖ Policy and Shaping Rate Limit
- ❖ ACL Based on Physical port
- ❖ Multicast VLAN registration
- ❖ Link Aggregation
- ❖ Built-in Lightning Protection



Product Specification

Item	Description
Dimension(mm)	440 x 205 x 44
Weight(kg)	3.04 Unit
Temperature ranges	0C - 50C
Power Consumption	220V 260 - 500W Max
Ports	24*RJ45 100/1000 Ports 4*10/100/1000 Combo Ports 1*Console Port RS-232
Standards	IEEE 802.3 10BaseTx Ethernet, IEEE 802.3u 100BaseTx Fast Ethernet, IEEE 802.3ab 1000BaseTx, IEEE 802.3z Gigabit Fiber IEEE 802.3x Flow Control IEEE802.1ad Link Aggregation (LACP) IEEE 802.1ab LLDP
Data Transfer Rate	56 Gb/s full duplex

Model	Downstream Ports					Uplink Ports		
	Speed (Mbps)	Ports	Type	Surge Protection	PoE Budget	Speed (Mbps)	Ports	Type
EPS-3128-240W	10/100/1000	24x	RJ-45	-	240W	100/1000	4x	Combo (SFP + RJ-45)
EPS-3128-480W	10/100/1000	24x	RJ-45	-	480W	100/1000	4x	Combo (SFP + RJ-45)
EPS-3128-240W-LP	10/100/1000	24x	RJ-45	6KV	240W	100/1000	4x	Combo (SFP + RJ-45)
EPS-3128-480W-LP	10/100/1000	24x	RJ-45	6KV	480W	100/1000	4x	Combo (SFP + RJ-45)

** EPS-3128-240W-LP and EPS-3128-480W-LP provides built-in lightning protection units on each port

EPS-3112 | 12 PORT GIGABIT MANAGED L2+ SWITCH



- ❖ STP/RSTP
- ❖ Policy and Shaping Rate Limit
- ❖ ACL Based on Physical port
- ❖ Multicast VLAN registration
- ❖ Link Aggregation



Product Specification

Item	Description
Dimension(mm)	330 x 230 x 44
Weight(kg)	1.5 Unit
Temperature ranges	0C - 50C
Power Consumption	220V 25W System POE Budget 130W
Ports	8*RJ45 100/1000 Ports 4*10/100/1000 Combo Ports 1*Console Port RS-232
Standards	IEEE 802.3 10BaseTx Ethernet, IEEE 802.3u 100BaseTx Fast Ethernet, IEEE 802.3ab 1000BaseTx, IEEE 802.3z Gigabit Fiber IEEE 802.3x Flow Control IEEE802.1ad Link Aggregation (LACP) IEEE 802.1ab LLDP
Data Transfer Rate	24 Gb/s full duplex

NETWORKING AND FTTX



MANAGED SWITCHES

ESW-3128 | 28 PORT GIGABIT MANAGED ACCESS SWITCH

- ❖ STP/RSTP
- ❖ Policy and Shaping Rate Limit
- ❖ ACL Based on Physical port
- ❖ Multicast VLAN registration
- ❖ Link Aggregation

Product Specification

Item	Description
Dimension(mm)	440 x 205 x 44
Weight(kg)	2.9 Unit
Temperature ranges	0C - 50C
Power Consumption	220V 20W Max DC Input 48V
Ports	24*RJ45 100/1000 Ports 4*10/100/1000 Combo Ports 1*Console Port RS-232
Standards	IEEE802.3 10Base-T IEEE802.3u 100Base-TX/FX IEEE802.3ab 1000Base-T IEEE802.3z 1000Base-X IEEE802.3az EEE IEEE802.3x Flow Control IEEE802.3ad Link Aggregation (LACP) IEEE802.1ab LLDP IEEE802.1p Priority IEEE802.1q Tag VLAN IEEE802.1d STP IEEE802.1w RSTP IEEE802.1X Port Based Network Access Control
Data Transfer Rate	56 Gb/s full duplex

SWH-3112 | 12 PORT GIGABIT MANAGED ACCESS SWITCH

- ❖ STP/RSTP
- ❖ Policy and Shaping Rate Limit
- ❖ ACL Based on Physical port
- ❖ Multicast VLAN registration
- ❖ DHCP option 60/43

Product Specification

Item	Description
Dimension(mm)	265 x 183 x 44
Weight(kg)	1.5 Unit
Temperature ranges	0C - 50C
Power Consumption	100-220V 12W Max
Ports	4*SFP 100/1000 Combo Ports 8*RJ45 10/100/1000 Ports 1*Console Port RS-232
Standards	IEEE802.3 10Base-T IEEE802.3u 100Base-TX/FX IEEE802.3ab 1000Base-T IEEE802.3z 1000Base-X IEEE802.3az EEE IEEE802.3x Flow Control IEEE802.3ad Link Aggregation (LACP) IEEE802.1ab LLDP IEEE802.1p Priority IEEE802.1q Tag VLAN IEEE802.1d STP IEEE802.1w RSTP IEEE802.1X Port Based Network Access Control
Data Transfer Rate	24 Gb/s full duplex

NETWORKING AND FTTX



MEDIA CONVERTERS

MCT100 Series | Fast Ethernet Compact Media Converter | 100Mbps



- ❖ Store and forward mechanism
- ❖ Auto negotiation in TP port
- ❖ Mac Address table 1K
- ❖ Memory buffer 48Kbytes
- ❖ Jumbo Frame up to 9Kbytes
- ❖ Compatible with MCT rack series
- ❖ Link Alarm

Product Specification

Item	Description
Dimension(mm)	51 x 74 x 20
Weight(kg)	0.1 Unit
Temperature ranges	0C - 50C
Power Consumption	3.3V 1.9W Max Through 220V wall adapter
Ports	1*RJ-45 100Mbps 1*100 SFP Port
Standards	IEEE 802.3 10BaseT IEEE 802.3u 100Base TX/FX
Data Transfer Rate	200 Mb/s full duplex

Model	Fiber Port				Copper Port		Management
	Speed (Mbps)	Type	Distance	Port	Speed (Mbps)	ports	
MCT-100BTFC	100	MM	2KM	1x	10/100	1x	-
MCT-100BTFT	100	MM	2KM	1x	10/100	1x	-
MCT-100BTFC(SM-30/50/80/100)	100	SM	30/50/80/100KM	1x	10/100	1x	-
MCT-100W2X(SM-20/40)	100	WDM	20/40KM	1x	10/100	1x	-
MCT-100SFP	100	SFP	-	1x	10/100	1x	-

MCT3002 Series | Gigabit Ethernet Compact Media Converter | 1Gbps



- ❖ Store and forward mechanism
- ❖ Auto negotiation in TP port
- ❖ Mac Address table 2K
- ❖ Memory buffer 128Kbytes
- ❖ Jumbo Frame up to 9Kbytes
- ❖ Compatible with MCT rack series
- ❖ Link Alarm

Product Specification

Item	Description
Dimension(mm)	51 x 74 x 20
Weight(kg)	0.1 Unit
Temperature ranges	0C - 50C
Power Consumption	3.3V 1.9W Max Through 220V wall adapter
Ports	1*RJ-45 100Mbps 1*100 SFP Port
Standards	IEEE 802.3 10BaseT IEEE 802.3u 100Base TX/FX IEEE 802.3ab 1000Base-T IEEE 802.3z 1000 Base-X
Data Transfer Rate	2 Gb/s full duplex

Model	Fiber Port				Copper Port		Management
	Speed (Mbps)	Type	Distance	Port	Speed (Mbps)	ports	
MCT-3002BTFC	1000	MM	550M	1x	10/100/1000	1x	-
MCT-3002BTFC(SM-10/20/30/50/80)	1000	SM	10/20/30/50/80KM	1x	10/100/1000	1x	-
MCT-3002W2X(SM-10/20/40)	1000	WDM	10/20/40KM	1x	10/100/1000	1x	-
MCT-3002BTFC(SM-10)-DR	100/1000	SM	10KM	1x	10/100/1000	1x	-
MCT-3002W2X(SM-10)-DR	100/1000	WDM	10KM	1x	10/100/1000	1x	-
MCT-3002SFP-DR	100/1000	SFP	-	1x	10/100/1000	1x	-

FCU-2805P-SFP | 10/100/1000BaseT to 1000BaseSX/LX | POE+



- ❖ FCC Class A, CE Class A
- ❖ LFP Function
- ❖ 1 x SFP Slot
- ❖ LEDs: Power | TP Link | Fiber Link
- ❖ Optional Rack Mount Accessories



Product Specification

Item	Description
Dimension(mm)	98 x 70 x 26
Weight(kg)	0.2 Unit
Temperature ranges	0C - 50C
Power Consumption	3W System 30W POE @ 48VDC
Ports	1*SFP 100/1000 1*10/100/1000 Copper
Standards	IEEE 802.3 10BaseTx Ethernet, IEEE 802.3u 100BaseTx Fast Ethernet, IEEE 802.3ab 1000BaseTx, IEEE 802.3z Gigabit Fiber, IEEE 802.3at, IEEE 802.3af
Data Transfer Rate	2 Gb/s full duplex

FCU-2805SFP | 10/100/1000BaseT to 1000BaseSX/LX



- ❖ FCC Class A, CE Class A
- ❖ LFP Function
- ❖ 1 x SFP Slot
- ❖ LEDs: Power | TP Link | Fiber Link
- ❖ Optional Rack Mount Accessories

Product Specification

Item	Description
Dimension(mm)	98 x 70 x 26
Weight(kg)	0.2 Unit
Temperature ranges	0C - 50C
Power Consumption	5VDC Adapter 5W Max
Ports	1*SFP 100/1000 1*10/100/1000 Copper
Standards	IEEE 802.3 10BaseTx Ethernet, IEEE 802.3u 100BaseTx Fast Ethernet, IEEE 802.3ab 1000BaseTx, IEEE 802.3z Gigabit Fiber
Data Transfer Rate	2 Gb/s full duplex

NETWORKING AND FTTX



CUSTOMER PREMISES EQUIPMENT

CUSTOMER PREMISES EQUIPMENT

FWR5 Series | FTTH P2P Triple Play Home Router | 1Gbps



- ❖ Dual Band (2.4Ghz/5Ghz)
- ❖ Direct Fibre connection through SFP
- ❖ ACL 802.11AC
- ❖ Multicast VLAN registration
- ❖ SNMP, Web and TR-069 Management
- ❖ DHCP Provisioning
- ❖ IGMP Proxy, Snooping v1 & 2, Fast Leave

Product Specification

Item	Description
Dimension(mm)	273 x 197 x 30.8
Weight(kg)	0.46 Unit
Temperature ranges	0C - 50C
Power Consumption	12V 15W Max Through 220V wall adapter
Ports	4*RJ-45 100/1000 1*10/100/1000 Combo Port SFP/RJ-45
Standards	IEEE 802.3 10BaseT Ethernet, IEEE 802.3u 100BaseTx/FX , IEEE 802.3ab 1000BaseTx, IEEE 802.3z Gigabit Fiber IEEE 802.3p Priority, IEEE 802.1q Tag VLAN
Data Transfer Rate	6.2 Gb/s full duplex

GW2 | Two in one intelligent gateway | 1Gbps



- ❖ Built in router for WAN and PPPoE
- ❖ Traffic Control
- ❖ White list
- ❖ Wireless AP Management up to 100 users
- ❖ DHCP auto provisioning
- ❖ 48V Power over ethernet ports
- ❖ Web Management platform

Product Specification



Item	Description
Dimension(mm)	190 x 120 x 45
Weight(kg)	0.35 Unit
Temperature ranges	0C - 50C
Power Consumption	48V 76W Max Through 220V wall adapter
Ports	4*RJ-45 100/1000 POE ports 1*10/100/1000 WAN Port RJ-45/11
Standards	IEEE 802.3 10BaseT Ethernet, IEEE 802.3u, IEEE 802.3ab 1000BaseTx, IEEE 802.3p Priority,
Data Transfer Rate	5 Gb/s full duplex

IN1212YW-H | Dual Band Wireless Access Point | 802.11 a/b/g/n/ac



- ❖ Dual Band (2.4Ghz/5Ghz)
- ❖ 500m2 Coverage area
- ❖ Intelligent channel management
- ❖ Auto reset architecture for hardware lockups
- ❖ Auto cache clear for continuous fast operation
- ❖ Cloud management platform for scaled deployments
- ❖ Highly stable and secure

Product Specification



Item	Description
Dimension(mm)	210 x 210 x 30
Weight(kg)	0.42 Unit 0.72 Package
Temperature ranges	-30C - 65C
Power Consumption	48V 9W Max Through 220V wall adapter or POE
Ports	2*RJ-45 100/1000 1*10/100/1000 Ports (Device can be POE powered))
Standards	802.11a IEEE 802.11n IEEE 802.11g IEEE 802.11b IEEE 802.3u IEEE 802.3af
Data Transfer Rate	2.6 Gb/s full duplex

iCPE | Open Service Multi-Platform Gateway | Z-wave



- ❖ Highly secure managed L2 Gateway
- ❖ Power redundancy
- ❖ 3G/4G backup
- ❖ Middleware and SDK for integrators
- ❖ Open certified Z-wave gateway
- ❖ Can be integrated to any cloud platform
- ❖ Local processing and storage for rules engines



Product Specification

Item	Description
Dimension(mm)	167 x 123 x 30
Weight(kg)	0.24 Unit
Temperature ranges	0C - 50C
Power Consumption	12V 1W Max Through 220V wall adapter
Ports	2*RJ-45 100/1000 Ports 3*USB2.0 Type A Ports
Standards	Z-wave and IEEE 802.3ab 1000Base-TX
Data Transfer Rate	2.6 Gb/s full duplex

WIRELESS



TRANSMISSION EQUIPMENT

TRANSMISSION EQUIPMENT

DIP1520 | Outdoor Wireless AP 1Km Transmission | 150Mb/s

- ❖ DIP switch IP config | No need for web setup
- ❖ Low power consumption
- ❖ Secure connection
- ❖ Ideal for surveillance cameras
- ❖ Point to Point or multipoint 1:4
- ❖ Atheros chipset and 64MB memory
- ❖ Highly stable transmission

Product Specification

Item	Description
Dimension(mm)	176 x 96 x 70.5
Weight(kg)	0.3 Unit
Temperature ranges	-30C - 65C
Power Consumption	12V 3W Max Through 220V wall adapter
Ports	2*RJ-45 10/100/1000
Standards	IEEE 802.11n IEEE 802.11g IEEE 802.11b IEEE 802.3u
Data Transfer Rate	200 Mb/s full duplex

DIP1526-H | Outdoor Wireless AP 2Km Transmission | 150Mb/s

- ❖ DIP switch IP config | No need for web setup
- ❖ Low power consumption
- ❖ Secure connection
- ❖ Ideal for surveillance cameras
- ❖ Point to Point or multipoint 1:4
- ❖ Atheros chipset and 64MB memory
- ❖ Highly stable transmission

Product Specification

Item	Description
Dimension(mm)	205 x 205 x 132.3
Weight(kg)	0.5 Unit
Temperature ranges	-30C - 65C
Power Consumption	24V POE 3W Max
Ports	2*RJ-45 10/100/1000 (Can be powered through 24V POE)
Standards	IEEE 802.11n IEEE 802.11g IEEE 802.11b IEEE 802.3u
Data Transfer Rate	200 Mb/s full duplex

DIP3526 | Outdoor Wireless AP 4Km Transmission | 300Mb/s

- ❖ DIP switch IP config | No need for web setup
- ❖ Low power consumption
- ❖ Secure connection
- ❖ Ideal for surveillance cameras
- ❖ Point to Point or multipoint 1:4
- ❖ Atheros chipset and 64MB memory
- ❖ Highly stable transmission

**Product Specification**

Item	Description
Dimension(mm)	176 x 96 x 70.5
Weight(kg)	0.3 Unit
Temperature ranges	-30C - 65C
Power Consumption	24V POE 3W Max
Ports	2*RJ-45 10/100/1000
Standards	IEEE 802.11n IEEE 802.11g IEEE 802.11b IEEE 802.3u
Data Transfer Rate	600 Mb/s full duplex

TX23-3516K | Outdoor Wireless AP 8Km Transmission | 300Mb/s

- ❖ Long range transmission
- ❖ Lightning Protection System
- ❖ Secure connection
- ❖ Ideal for surveillance cameras
- ❖ Point to Point or multipoint 1:4
- ❖ Atheros chipset and 128MB memory
- ❖ Highly stable transmission

**Product Specification**

Item	Description
Dimension(mm)	274 x 255 x 40
Weight(kg)	1.2 Unit
Temperature ranges	-30C - 65C
Power Consumption	24V POE 6W Max
Ports	2*RJ-45 10/100/1000
Standards	IEEE 802.11n IEEE 802.11g IEEE 802.11b IEEE 802.3u
Data Transfer Rate	600 Mb/s full duplex

TX23-3525K | Outdoor Wireless AP 20Km Transmission | 300Mb/s



- ❖ Long range transmission
- ❖ Lightning Protection system
- ❖ Secure connection
- ❖ Ideal for surveillance cameras
- ❖ Point to Point or multipoint 1:4
- ❖ Atheros chipset and 128MB memory
- ❖ Highly stable transmission



Product Specification

Item	Description
Dimension(mm)	305 x 305 x 60
Weight(kg)	2.8 Unit
Temperature ranges	-30C - 65C
Power Consumption	24V POE 8.5W Max
Ports	2*RJ-45 10/100/1000
Standards	IEEE 802.11n IEEE 802.11g IEEE 802.11b IEEE 802.3u
Data Transfer Rate	600 Mb/s full duplex

INTERNET OF THINGS



SIMPNIC | IOT PLATFORM |



- ❖ Most secure Z-wave S2 sensor network
- ❖ Built in firewall
- ❖ Software tamper detection
- ❖ Compatible with Google, Apple and Amazon
- ❖ Simpnic Openness platform for integrators
- ❖ Automatic backup and restore
- ❖ Friendly user interface
- ❖ Camera integration
- ❖ IFTTT compatible

Product Specification

Item	Description
Dimension(mm)	TBA - Q3 2018
Weight(kg)	TBA - Q3 2018
Temperature ranges	TBA - Q3 2018
Power Consumption	TBA - Q3 2018
Ports	TBA - Q3 2018
Standards	TBA - Q3 2018
Data Transfer Rate	TBA - Q3 2018

SIMPNIC APP



SIMPNiC Customized, Modulated & Intuitive APP



AFRI-IOT | CUSTOM IOT SOLUTIONS FOR YOUR BUSINESS



GATEWAYS



- ❖ Can be configured for any connection method
- ❖ Edge or cloud computing
- ❖ Analytics
- ❖ Alerts
- ❖ Rules engine local or remote (Cloud)
- ❖ Customizable
- ❖ Friendly user interfaces
- ❖ Camera integration
- ❖ Third party integration

SENSORS



- ❖ Vast array of existing sensor types available
- ❖ Temperature | Humidity | Fluid Level
- ❖ GPS tracking | Motion | Vibration |
- ❖ Open/ Close Status | Speed | Pulse count
- ❖ Position | Level | Acceleration | Impact
- ❖ Noise | Gas | Smoke | Fire | Intrusion
- ❖ Analogue | Digital | PWM | Low level
- ❖ Optical sensors not limited to cameras
- ❖ Any sensor can be integrated

FIELD DEVICES



- ❖ Enabling secondary actions through automation
- ❖ Enabling secondary response through interaction
- ❖ Unlock | Release | Raise | Open
- ❖ Lock | Secure | Lower | Shut |
- ❖ Start/Stop machine | Activate | Notify
- ❖ Recalibrate | Interlock | Timer | Reset
- ❖ Video feed on action
- ❖ Any sensor can be integrated

PLATFORMS



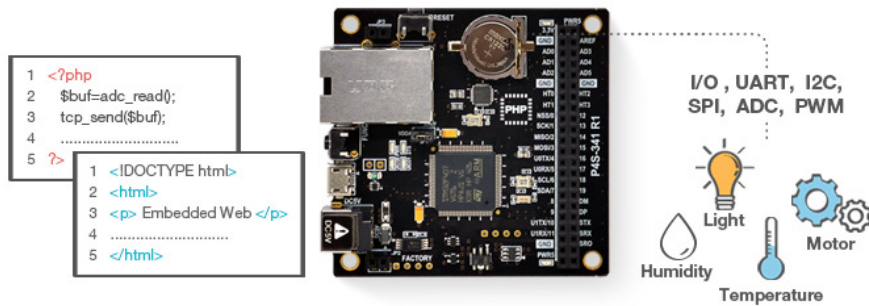
- ❖ Control and notification
- ❖ History and analysis
- ❖ Deep learning for process optimisation
- ❖ High level Integration
- ❖ Tiered level interaction and response
- ❖ IBM | Azure | Amazon | Opensource
- ❖ Customisable to any business model
- ❖ White labeling
- ❖ Training

PHPOC | IOT BOARDS EXPANDERS AND GATEWAYS

We are an official distributor of PHPoC products

<https://www.phpoc.com>

The main purpose of the PHPoC programmable board and expanders is to afford users to create their own ideas and program them, enabling them to learn the different concepts involved in IoT. The units provide an easy to learn adapted form of php programming with many examples available on the website.



INTERNET of THINGS



Cloud



Web



E-mail



Database

PROGRAMMING

PHPoC is a programming language developed based on widely-used PHP language, that makes it become not only a Web development language but also the general-purpose programming language for IoT. The syntax is almost the same as PHP, but adapted for embedded systems.

```
case MYSQL_STATE RR:
    if(sn_mysql_loop_rr() == -1)
    {
        mysql_close();
        return -1;
    }
    break;

case MYSQL_STATE READY:
    echo "sn_mysql[sn_mysql_state]: connect to $sn_mysql_state";
    $sn_mysql_pid = pid_open("/mmap/top$sn_mysql_top_id");
    if($sn_mysql_pid == -EBUSY)
    {
        $sn_mysql_top_id = rand(0, 4);
        return false;
    }
    return $sn_mysql_pid;
}
```

PHPoC inherits almost all core functions from PHP. PHPoC adds new functions, which are used to interact with hardware peripherals such as I/O, UART, I2C, SPI, ADC, TIMER/COUNTER, RTC and so on.

In other words, PHPoC is an expansion of PHP on a small chip. It takes advantage of the powerful features of PHP and adds extra features to become a powerful programming language for IoT development. PHPoC can be used to not only develop dynamic Web pages, but also to monitor and control electronics.



EXPANSION BOARDS

Expansion boards are designed to provide the additional hardware and firmware for advanced capabilities (such as controlling/monitoring high-voltage devices, DC motors, step motors controllers ...), and create a firm connection to other devices. Expansion boards are stackable on PHPoC IoT Board. Expansion boards are categorized into PHPoC Expansion Board and PHPoC Smart Expansion Board