



INDUSTRIAL PANEL PC'S

Human Machine Interface (HMI) Ultra Slim Series

From general purpose computing to highly customized applications – PRIMARY NETWORKS has a solution.

Our HMIs are designed for severe environments and industrial applications where control capabilities, local database/storage and connectivity are required. Our solutions offer a wide range of I/O, allowing users to connect to multiple devices and take control the factory floor.

All of our panels come equipped with an IP65 compliant flush touch panel, stainless steel housing, isolated serial ports and modular, upgradable design. These products are appropriate for a variety of heavy-duty applications, including but not limited to: Factory Automation, Machine Automation, Energy Management and “Smart” Building Automation.

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- Fanless, modular panel computers.
- 12.1 inch to 17 inch wide screen panels.
- Flush front panel, IP65 compliant.
- Front bezel with completely covered membrane.
- Outside accessible push – pull CFast sockets.

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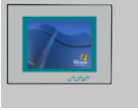
Model	LYNC-708	LYNC-7123	LYNC-712	LYNC-712-1900G4
Dimensions (W x H x D)	274.96 x 207.96 x 40.0 mm	326.00 x 259.00 x 45.50 mm	325.88 x 258.86 x 44.00 mm	325.88 x 258.86 x 44.00 mm
CPU	Intel® N2600 1.6GHz	Intel® N2600 1.6GHz	Intel® N2600 1.6GHz	Intel® J1900 Quad-Core™ 2.0GHz
Chipsets	Intel® NM10	Intel® NM10	Intel® NM10	-
Memory	Onboard 2GB DDR3	Onboard 2GB DDR3	Onboard 2GB DDR3	4GB DDR3 installed
LCD Display	8", 1024 x 768	12.1", 1024 x 768	12.1", 1024 x 768	12.1", 1024 x 768
Analog RGB Output	-	-	-	-
Video Output	-	DVI-I	DVI-I	DVI-I
Audio	Line-out	Line-out	-	-
KB/MS	-	-	-	-
Ethernet	1 x GbE (POE)	2 x GbE	2 x GbE	2 x GbE
Mass Storage	1 x mSATA	1 x primary CFast & 1 x 2.5" drive bay	1 x CFast & 1 x 2.5" drive bay	1 x CFast & 1 x 2.5" drive bay
RS-232	2	2	2	-
RS-232/485	-	2	2	4
Digital I/O	-	4-in / 4-out	-	-
USB 2.0	2	4	5	5
USB 3.0/2.0	N/A	N/A	N/A	1
WIFI	-	PCIe Mini-card (optional)	PCIe Mini-card (optional)	PCIe Mini-card (optional)
Speaker	2 x 1.5W speakers	2 x 1W speakers	2 x 1.5W speakers (optional)	2 x 1.5W speakers (optional)
Expansion Bus	1 x Mini-card socket for mSATA	1 x Mini-card socket	1 x Mini-card socket	1 x Mini-card socket
Power Input	DC 12V	DC 9~36V	DC 9~36V	DC 9~36V
Operating Temperature	0 ~ 60°C	-20~55°C	-20~55°C	-20~55°C



Model	LYNC-715	LYNC-715-1900G4	LYNC-817
Dimensions (W x H x D)	389.93 x 309.93 x 46.80 mm	389.93 x 309.93 x 46.80 mm	428.00 x 380.00 x 77.00 mm
CPU	Intel® N2600 1.6GHz	Intel® J1900 Quad-Core™ 2.0GHz	Intel® J1900 Quad-Core™ 2.0GHz
Chipsets	Intel® NM10	-	-
Memory	Onboard 2GB DDR3	4GB DDR3 installed	4GB DDR3 installed
LCD Display	15", 1024 x 768	15", 1024 x 768	17", 1280 x 1024
Analog RGB Output	-	-	-
Video Output	DVI-I	DVI-I	DVI-I
Audio	-	-	Yes
KB/MS	-	-	-
Ethernet	2 x GbE	2 x GbE	2 x GbE
Mass Storage	1 x CFast & 1 x 2.5" drive bay	1 x CFast & 1 x 2.5" drive bay	1 x CFast & 1 x 2.5" drive bay
RS-232	2	-	2
RS-232/485	2	4	2
Digital I/O	-	-	-
USB 2.0	5	5	3
USB 3.0/2.0	N/A	1	1
WIFI	PCIe Mini-card (optional)	PCIe Mini-card (optional)	PCIe Mini-card (optional)
Speaker	2 x 1.5W speakers (optional)	2 x 1.5W speakers (optional)	-
Expansion Bus	1 x Mini-card socket	1 x Mini-card socket	1 x Mini-card socket 1 x PCI 32-bit slot (default) or 1 x PCIe x1 slot (optional)
Power Input	DC 9~36V	DC 9~36V	DC 9~36V
Operating Temperature	-20~55°C	-20~55°C	-0°C ~ 55°C

Features and benefits

LYNC-708



- 8" Intel® N2600 Panel PC
- 5wire Resistive T/S with Completely Covered Membrane
- Wide Range DC Power Input (9 ~ 36V)
- GbE port w/ IEEE 802.3at POE PD
- Operating temperature (-20°C~55°C)
- Front panel compliant with IP65

LYNC-712



- 12.1" Intel® N2600 Panel PC
- 5wire Resistive T/S with Completely Covered Membrane
- Wide Range DC Power Input (9 ~ 36V)
- Optional WiFi Connection
- Operating temperature (-20°C~55°C)
- Front panel compliant with IP65

LYNC-7123



- 12.1" Intel® N2600 Panel PC
- 5wire Resistive T/S with Completely Covered Membrane
- Optional WiFi Connection
- Wide Range DC Power Input (9 ~ 36V)
- Isolated DIO (4-in 4-out)
- Operating temperature (-20°C~55°C)
- Front panel compliant with IP65

LYNC-712-1900G4



- 12.1" Intel® J1900 Panel PC
- 5wire Resistive T/S with Completely Covered Membrane
- Optional WiFi Connection
- Wide Range DC Power Input (9 ~ 36V)
- Operating temperature (-20°C~55°C)
- Front panel compliant with IP65

LYNC-715



- 15" Intel® N2600 Panel PC
- 5wire Resistive T/S with Completely Covered Membrane
- Wide Range DC Power Input (9 ~ 36V)
- Optional WiFi Connection
- Operating temperature (-20°C~55°C)
- Front panel compliant with IP65

LYNC-817

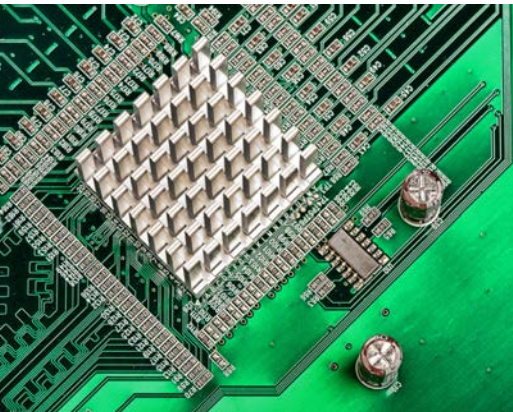


- 17" Intel® J1900 Panel PC
- 5wire Resistive T/S with Completely Covered Membrane
- Wide Range DC Power Input (9 ~ 36V)
- Optional WiFi Connection
- Operating temperature (-20°C~55°C)
- Front panel compliant with IP65

LYNC-715-1900G4



- 15" Intel® J1900 Panel PC
- 5wire Resistive T/S with Completely Covered Membrane
- Optional WiFi Connection
- Wide Range DC Power Input (9 ~ 36V)
- Operating temperature (-20°C~55°C)
- Front panel compliant with IP65



Services

Installation - multi-disciplined installation engineers experienced in the marine environment are available to install the systems. Engineers have the appropriate security clearance to work in many dockyards or land based installations. Both new installations or vessel upgrades can be carried out around the world on request.

Global support - around the world ensures support is always close at hand.

Warranty - long standard warranty with optional policies available to give extended warranty life plan – gives peace of mind.

Extended spares programme - ensures guaranteed availability of spares and whole machines for an agreed period. Gives customers security in the knowledge that products can be operational for given time frames up to 10 years.

Training - for engineers or crew at customers premises or our offices.

Research and development - dedicated team to design, test and develop the next generation of systems whilst improving reliability and quality at every step.

Extended life support - enables deployment of systems over many years can be easily managed ensuring identical systems are installed helping keep costs of change to zero.

Trade in and recycling program* - a 'Whole of Life Plan' for life ownership enables a collection service to take products away from agreed locations in return for funding for new equipment. Full recycling of parts means environmental security from start to finish using the 'Circle 21' Plan

Purchase options** - Rent or Lease options available to spread capital expenditure cost and can include additional.

Repair programme *** - aims to extend product life with many product variants being able to be repaired. Upgrades can also be reviewed.

* equipment as supplied by Primary Networks

** not available all products

*** revalidation and testing may be required for certain repairs. Where different components are used then additional re-testing may be needed and this maybe uneconomic for small quantities. Contact the manufacturer to discuss.





Applications

- Maritime controls
- Controlling ballast tanks
- Communications tasks
- Process control
- Data acquisition
- Process control



Testing / Environmental

We have considerable experience in building and adapting computer equipment to meet tests to include:

- Tempest NATO SDIP 27, level B
- DefStan
- Land Class A
- Below Decks
- MIL-STD 810G

Individual test certificates available for specific categories of test when requested.



Design Service

- Our range of industrial panel PC's are supplied 'ready to go'. However, we recognise that for some of our customers a bespoke design tailored to their requirements will be needed and our engineers and design team are here to help.
- Our expertise and custom design service enables a customer to have the exact machine built to suit their application. We recognise that sometimes a system needs to be built around a pre-existing piece of kit ie, unusual size, shape, mountings etc, and our design team will work hard to find a solution which can meet these criteria.
- A full service includes a brief and initial prototype through to full manufacturing, test and delivery. This can include all aspects of specific testing such as Tempest or MIL-STD etc where our specialised knowledge ensures we deliver a machine fully certified to the customer specification.
- The finished designs, once fabricated, can then be warehoused and deployed as needed and our installation team are fully experienced in fitting and installation.



Contact

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Agents, Partners and Distributors

As part of our continued expansion programme we would be interested in speaking to Sales Agents, Partners and System Integrators in key countries around the world who can help us achieve our aims.

Services

- Design consultants
- Concept → design → prototype
- Manufacture, test and certification
- Shock, vibration and defence standard EMC, test and certification
- Training
- Projects - prime or sub-contractor
- Worldwide coverage

Products

- **Louvar ZX3 Series** - ruggedized, Naval certified PC's / computers
- **i-Louvar Mini Series** - ultra compact, thin client, Naval certified PC's / computers
- **Naval Ships Power Systems** - power trays and rack mounted comms trays to provide dual outputs with optimised EMC filters
- **Industrial Panel PC's** - ruggedized, certified and marinised:
 - Wide screen series, fanless, Intel quad core processor
 - Ultra slim series, fanless, Intel Atom processor
 - Heavy Duty Series, fanless, Intel Celeron processor
- **Ruggedised tablets and hand held devices**

A long established, professional company serving the defence sector:

- ISO 9001 quality management approved
- Investors in People certified
- ADS Group Member

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We are proud to work with and supply:



Royal Netherlands Navy