

Models 6725G through 6729G

6U cPCI Light Managed Ethernet Switches

Up to twelve 10/100Mbps auto-negotiating ports with optional fiber interfaces



The 6725G-6729G Series of switches are highly integrated 10/100 Fast Ethernet switches fully compliant with the applicable sections of IEEE802.3. Available in standard and extended temperature configurations.

Auto-crossover, auto-polarity, auto-negotiation and automatic MAC address management make the 6725G Series true Plug&Play layer2 switches.

Each switch can be configured by a local EPROM or from a PC by a switch configuration utility.

Key features of the 6725G-6729G Series of Ethernet switches:

- Front Panel (FP) and Rear I/O (R) I/O available
- High speed non-blocking and store and forward switching
- Auto sensing ports for speed and duplex mode selection
- 2048 MAC address entries with automatic learning and aging
- Packet loss prevention with back pressure or IEEE802.3x flow control
- QoS with four traffic classes
- Port based VLANs
- Slower and faster ports can be used through the same network
- Automatic MDI/MDIX crossover
- LED display for easy network monitoring: activity and link
- Low power dissipation <5W for eight 100TX ports
- High reliability CMOS chip integration

Switches are designed to work with all cable media. The auto-sensing 10/100TX ports on RJ45 allow the user to connect UTP or STP cable. For a 10BT link the maximum network is 185m long (CAT3/4 cable) and 150m long for a 100TX link (CAT5 cable). The 100Base-FX Ethernet port with MTRJ connector uses a 1300nm transceiver for a multimode fiber and allows the user to connect a distant node up to 2000m. One or two fiber channels can be implemented.

Switches provide a smooth migration path as your network evolves, with the support of conventional Ethernet and Fast Ethernet.

Functional Specifications:

Power:

- 5VDC / 600mA (12 10/100TX ports)

Form Factor

VMEbus 6U Single Slot

Standard Conformance

- IEEE802.3 (Ethernet), IEEE802.3u (Fast Ethernet), IEEE 802.3x (full-duplex flow control)
- Emissions EN55022 Class A
- Immunity CEI 50082-1 (EN61000-4-2, -3, -4, -5, -6, -11)
- Security EN60950

Standard Environment

- Operating Temperature 0°C to 55°C
- Storage -45 to 85°C
- Humidity 5% to 90% HR non condensing
- Storage Temperature -45°C to 85°C
- Sinusoidal Vibration 2G [20..2000]Hz
- Random Vibration 0.002g²/Hz [10..2000]Hz
- Shock 1/2 Sin 11ms 20G
- Recommended Airflow 0.6m/s

Extended Environment with Conformal Coating

- Operating Temperature -20°C to 65°C
- Recommended Airflow 0.8m/s
- Humidity 5% to 95% HR non condensing
- Storage Temperature -45°C to 85°C
- Sinusoidal Vibration 2G [20..2000]Hz
- Random Vibration 0.002g²/Hz [10..2000]Hz
- Shock 1/2 Sin 11ms 20G

Order Information

All Extended Grade, Rugged Grade and Conduction Cooled boards below are conformal coated
 S= standard grade (0-+55C), X= ext grade (-20-+65C), R = rugged grade (-40 - +75C), cc = cond cooled

Front Panel connections	LM = Light Managed switch (FP) = Front Panel - (R) = Rear I/O	Temp
6725G-S	8 ports_LM : 8*10/100TX (FP) - 4HP	Standard
6725G-X	8 ports_LM : 8*10/100TX (FP) - 4HP	Extended
6726G-S	12 ports_LM : 12*10/100TX (FP) - 4HP	Standard
6726G-X	12 ports_LM : 12*10/100TX (FP) - 4HP	Extended
6727G-S	12 ports_LM : 10*10/100TX + 2*100FX (FP) - 4HP	Standard
6727G-X	12 ports_LM : 10*10/100TX + 2*100FX (FP) - 4HP	Extended
6728G-S	9 ports_LM : 9*10/100TX (R) - 4HP	Standard
6728G-X	9 ports_LM : 9*10/100TX (R) - 4HP	Extended
6729G-S	12 ports_LM : 9*10/100TX (R) + 2*100FX (FP) + 1*10/100TX (FP) - 4HP	Standard
6729G-X	12 ports_LM : 9*10/100TX (R) + 2*100FX (FP) + 1*10/100TX (FP) - 4HP	Extended

760 Veterans Circle Warminster, PA 18974 Tel (215) 956-1200 fax (215) 956-1201
 www.acttechnico.com

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