



IRIS 520/540 EFM

22.8/22.8 or 60/60 Mbps - 4-pairs

11.4/11.4 or 30/30 Mbps - 2 pairs

5.7/5.7 or 15/15 Mbps - 1 pair

IRIS 520 and Iris 540 are high performance EFM (Ethernet in the First Mile) modems utilizing one, two or four twisted copper pairs for delivering broadband Ethernet services. The modems offer symmetrical, high efficiency, low latency and bandwidth optimized bonded copper data access from 5.7/5.7 Mbps with single copper pair upto 60/60 Mbps with four copper pairs.

IRIS 520/540 modems are ideal for creating high speed, high reliability managed Ethernet services for operators, carriers and internet service providers utilizing advanced VLAN techniques. Typical applications include also campus networks and high performance IP camera and surveillance network implementations.

The modems can be used as Central or Remote device enabling point-to-point connection, or together with SHDSL EFM DSLAM, such as DCombus N5000.

Main Properties

- High speed Ethernet over copper SHDSL EFM modems/CPEs
- Use as point-to-point or with DSLAM
- SHDSL EFM bonding (IEEE 802.3ah) compatible, ATM mode interworking (g.shdsl.bis, ITU-T)
- Max 5.7/5.7 or 15/15 Mbps with single copper pair
- Max 11.4/11.4 or 30/30 Mbps with two copper pairs
- Max 22.8/22.8 or 60/60 Mbps with four copper pairs
- Optimized, automated copper pair link management
- Manageable VLAN ja QoS for traffic bridging and prioritization
- CLI/SSH management, SNMP

Main Applications

- Symmetrical broadband access for operator managed Ethernet services
- Operator and ISP provided broadband services for businesses, SMEs, branch offices, etc.
- Mobile networks basestation IP/Ethernet backhaul
- Scalable Ethernet over copper services
- Business critical Ethernet services
- High performance IP camera and surveillance networks
- Campus networks for extended Ethernet/LAN applications

Product Variants

- Iris 520 -001, 1-copper pair (2-w), max 5.7/5.7 Mbps,
- Iris 520 -002, 2-copper pairs (4-w), max 11.4/11.4 Mbps,
- Iris 520 -201, 1-copper pair (2-w), max 15/15 Mbps,
- Iris 520 -202, 2-copper pairs (4-w), max 30/30 Mbps,
- Iris 540 -002, 2-copper pairs (4-w), max 11.4/11.4 Mbps,
- Iris 540 -004, 4-copper pairs (8-w), max 22.8/22.8 Mbps,
- Iris 540 -202, 2-copper pairs (4-w), max 30/30 Mbps,
- Iris 540 -204, 4-copper pairs (8-w), max 60/60 Mbps,

TECHNICAL SPECIFICATIONS

SHDSL Interface and Datarates

- TC-PAM 16/32 (Trellis Coded Pulse Amplitude Modulation) G.991.2 and TC-PAM 64/128
- Max 5696 kbps per copper pair (TC-PAM 16/32)
- Max 15352 kbps per copper pair (TC-PAM 16/32/64/128)
- Optimized and automatic copper bonding and bandwidth management
- EFM, Ethernet in the First Mile (IEEE 802.3ah)
- G.shdsl.bis (ITU-T) ATM mode interworking

Ethernet, VLAN and QoS

- 4x port managed Ethernet switch, bridging
- Port based IEEE 802.1Q VLAN tagging, including VLAN stacking QinQ
- VLAN ID and IP/TOS based QoS
- MTU 2047

Management

- CLI (Command Line Interface) via SSH or serial console, WebUI Port Monitor
- SNMP

Connectors

- SHDSL EFM: 1 x RJ45
- Ethernet/LAN: 4 x RJ-45
- Console port RS232: RJ45

Dimensions

- Metallic case, dimensions 208 x 206 x 46 mm

Power

- Internal 110-240 VAC 50-60Hz power supply
- Internal 36-72 VDC power supply (optional)
- Typical power consumption < 20W