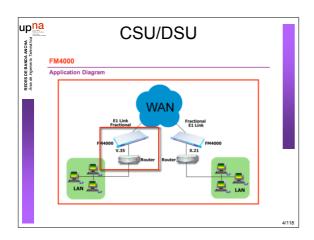




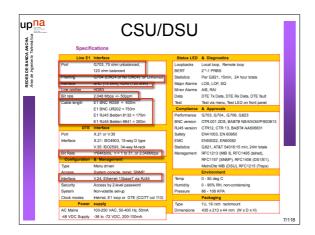
| REDES DE BANC Area de Ingenierie | Equipos PDH y SONET/SDH CSU/DSU Interfaz E1 para Router Puerto POS STM-4c para Router STM-1/4 Multi-Service Node MultiService Platform MSPPs | |
|-------------------------------------|--|-------|
| | | 2/118 |





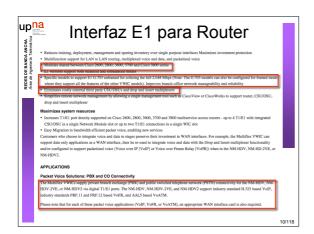












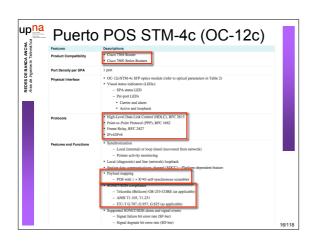
| up | Interfaz E1 para Router | |
|----------------------|---|--------|
| REDES DE BANDA ANCHA | Data Solutions: 1 and 2 nort 1/E1 VIC with intercrated DSUCSU The Multiflet VVICs simplify branch office connectivity by integrating the functionality of a rooter, TLE1, factional TLE1 werial interface with a | |
| RED | | |
| | When used for "data-only" WAX connectivity, the Multifact VWICs support numerous functions, including Cisco 1058' command line interface initiated loophes, deverols, similar to the popular WCI-1058-VIT. Indidicatingly the Multifact VWICs a lost offered in ead aport versions, including dual EI configurations, enabling increased WAX port density in Cisco 26/23/69/73/800 series multiervice access rooters. The EI VWIC versions include integrated Dist, whatle the TI VWIC versions integrace Cisca and DSI Unfinicationally, implifying remove review numagement. | |
| | The 2-port Multiflex VWICs increase configuration flexibility on Cisco multiservice access routers eliminating the need for 2 single-port TL/E1 WAN interface cards. Increasing the TL/E1 port density in a single WIC side enables applications such as local serial aggregation with the WIC-2T or WIC-2A/s, or SDN sokelps with the WIC-1 IS-ST or WIC-18-IS-ST. | r |
| | The VWICs also support a channelized capability where the T1 or E1 service can be flexibly split into two or more fractional channel groups. Thus a single physical port can provide connection to multiple sites. (Note: when choosing this mode only a single port can be supported in each WIC slot.) | |
| | The VWIC-IMPT-GT00 and VWIC-2MPT-GT03 not only support unframed G.703 but also support all the features of the other VWICs including Drop and Interest the KWIC-2MPT-GT03. Additional finebility is provided on the VWIC-2MPT-GT03 with the capability to configure one port for unframed G.703 white configurity on their transaction factors. | |
| | | |
| | | 11/118 |

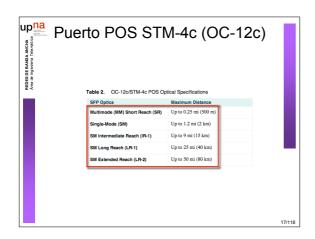


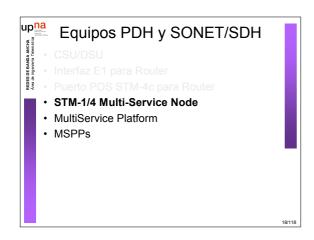


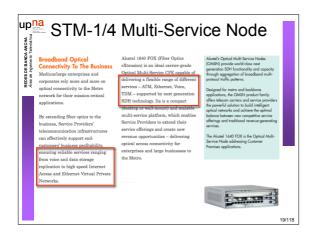


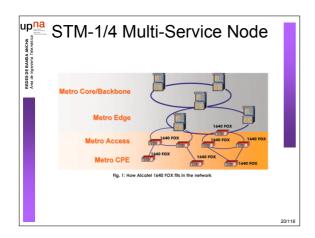


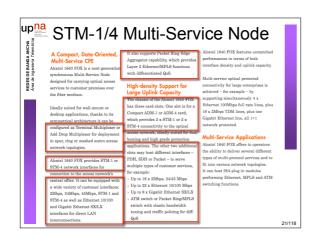


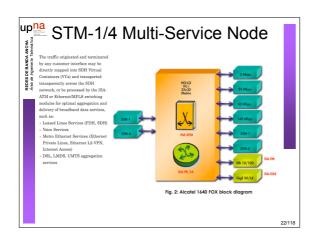


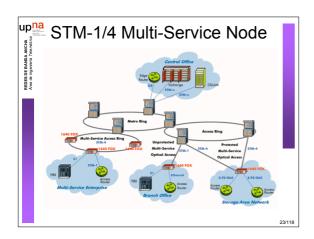


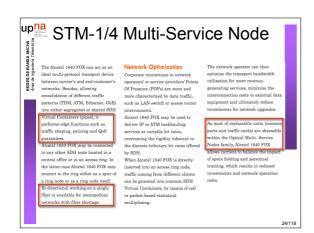


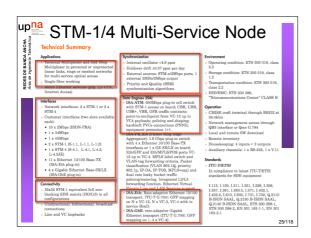




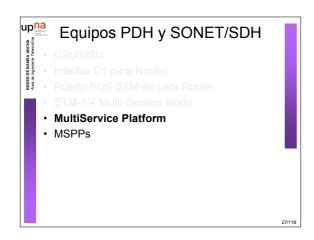




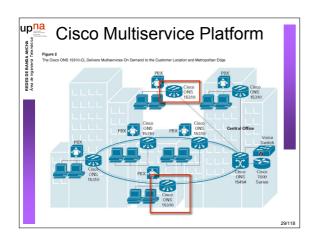




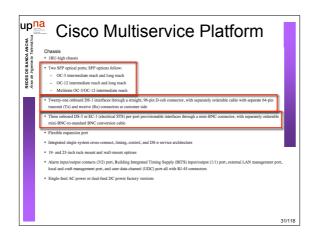
| Protections Linear MSP single and dual-ended SNCPII, SNCNP SNCPD Deep & Continue Protection Protection SNCPI SNCPI Deep & Continue SNCPI Deep & Contin | Power Station battery: 48 to -60 V de An maine optional external AODC Game overs a transmission chansis) Power consumption: 28 W (typical) Physical Dimension Channis die BWV ± 285H x 3130 mm In mount, ETSI rack | » ATM Forum af hear 6013:000, af new 6127.000, af num- af hear 6013:000, af num- af hear 6013:000, af num- af num 6005:001, af phy 9004:000, |
|--|---|---|
|--|---|---|



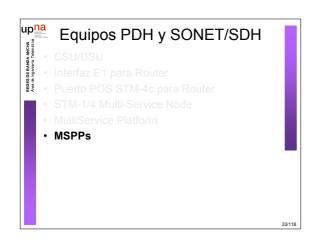




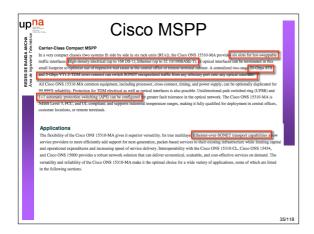


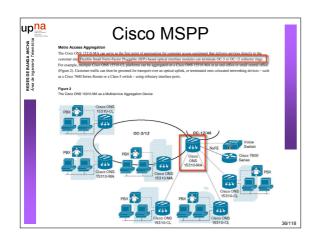


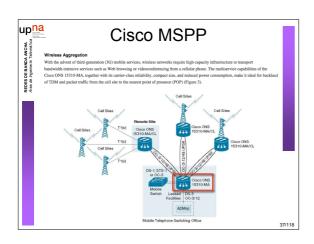
| up <mark>na</mark> | Cisco Multiservice Platform | |
|---|---|--------|
| REDES DE BANDA ANCHA Área de Ingenieria Telemática | Configurations Posite-to-point terminal Add-drop multiplexer "Two-fiber undirectional-path switched ring (UPSR) Path-protected mesh network (PPMN) | |
| | System Timing Internal Reference -SONET Minimum Clock (SMC) x20 purts per million (PPM) compliant with Telcordia GR-253-CORE Holdower stability: 3.7 x 10; 7 per day, including temperature (<255 slips in first 24 hours) Line itmed from any OC-n port External BITS Software | |
| | SONET, DS-3/EC-1, and DS-1 UPSR, PPMN, 1 = 1, 1 = 0, bifurectional, and unidirectional Complete equipment and facility maintenance Complete performance monitoring per GR 4-99, GR-253, and GR-820 Hall Ethernet workching capability Fall Ethernet workching capability | |
| | Protection-channel access (Telcordia GR-1230-CORE) Terminal and facility loopbacks | 32/118 |

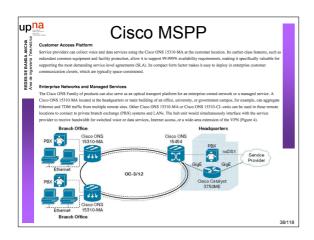


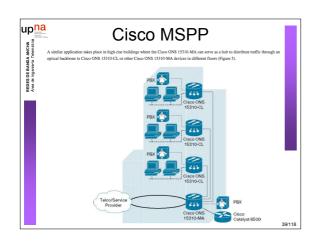


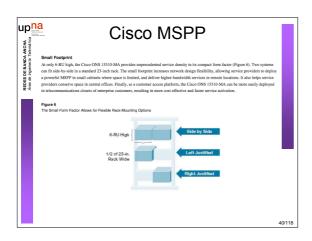


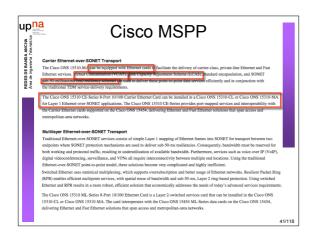


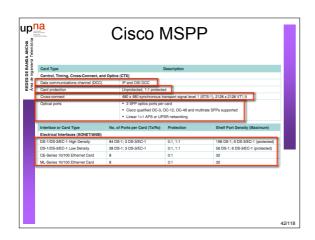


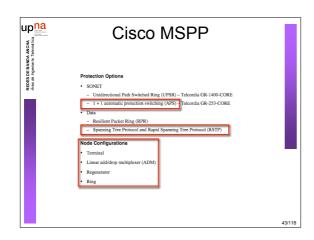




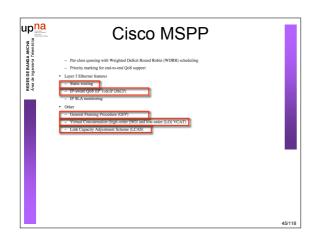




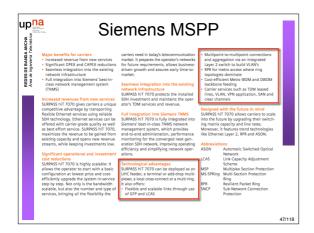


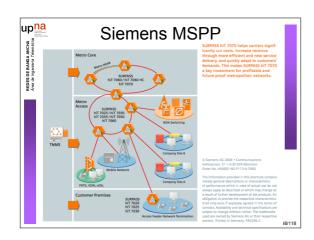




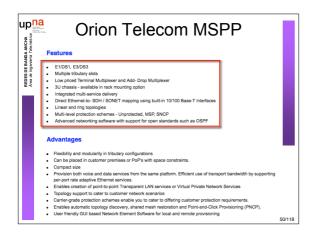


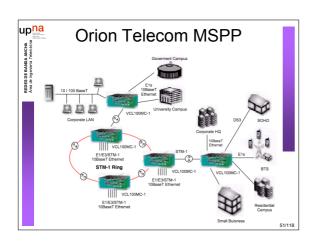


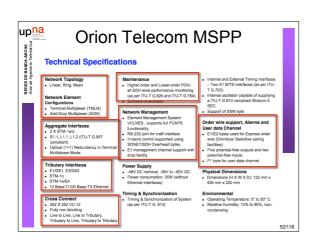




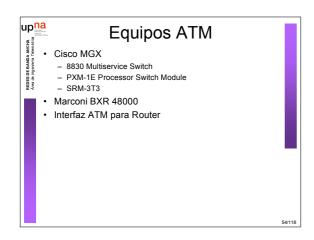


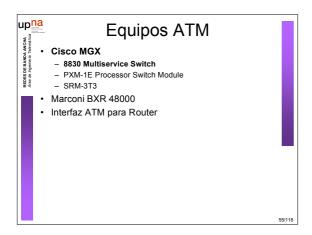


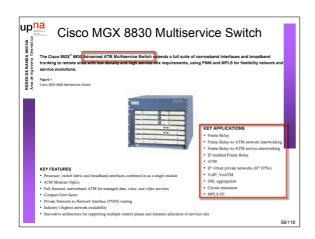


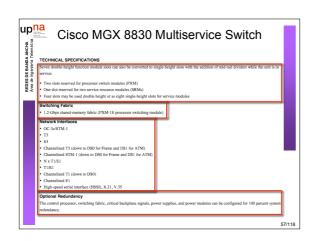


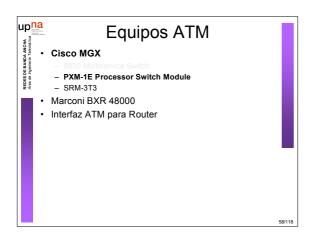




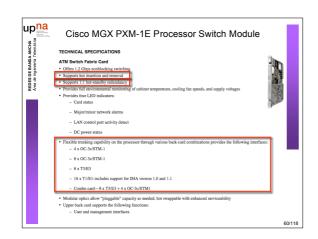






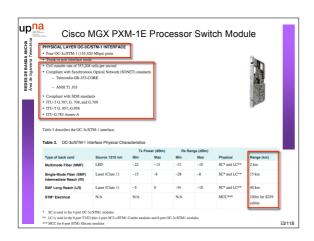


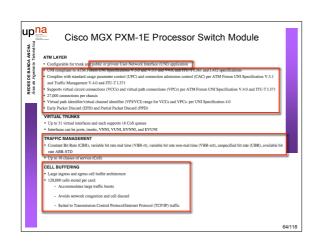


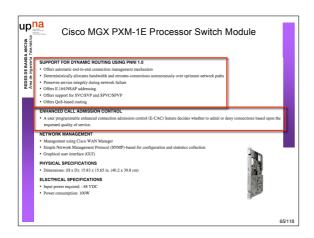


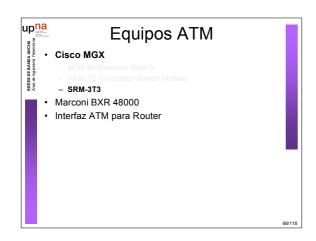






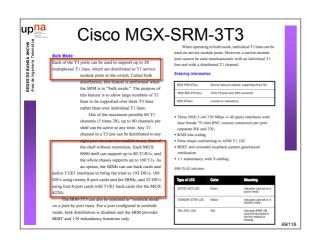






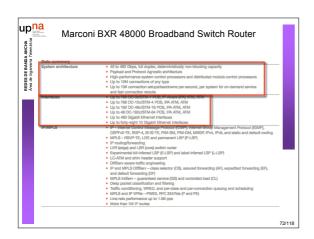


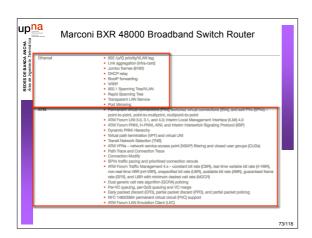


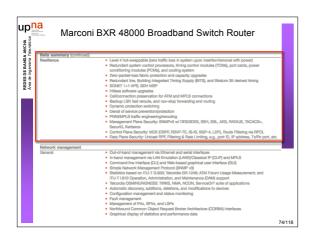






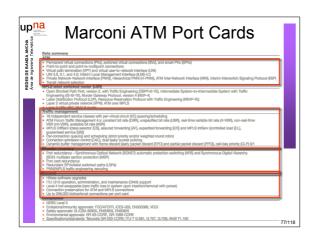




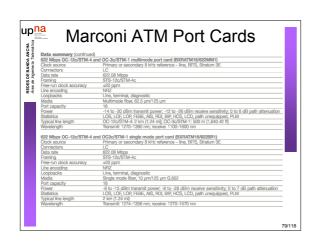


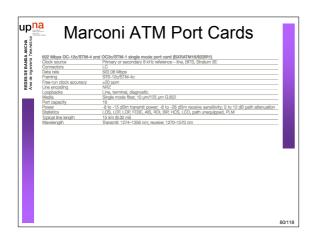




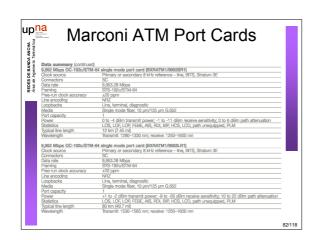


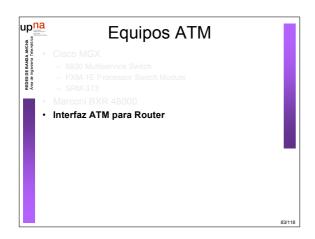
| : Ma | rconi ATM Port Cards |
|--|--|
| ivia | ioonii / trivi r ort oarao |
| | |
| | |
| Optical interfaces | |
| | nultimode port card (BXRATM16/155MM1) |
| Clock source | Primary or secondary 8 kHz reference – line, Building Integrated Timing Supply (BITS), Stratum 3E |
| Connectors | LC |
| Data rate | 165.52 Mbps |
| Framing | STS-3c/STM-1 |
| Free-run clock accuracy Line encoding | ±20 ppm Non-return to zero (NRZ) |
| Line encoding Loopbacks | Line, terminal, diagnostic |
| Media | Multimode fiber, 62.5 µm/125 µm |
| Port capacity | 16 |
| Power | -14 to -20 dBm transmit power: -12 to -26 dBm receive sensitivity; 0 to 6 dB path attenuation |
| Statistics | Loss of signal (LOS), loss of frame (LOF), loss of pointer (LOP), far-end block error (FEBE), alarm indicati |
| Champion | signal (AIS), remote defect indication (RDI), bit interleaved parity (BIP) errors, header check sequence (H |
| | errors, loss of cell delineation (LCD), path unequipped, path label mismatch (PLM) |
| Typical line length | 500 m (1,640.42 ft) |
| Wavelength | Transmit: 1270–1380 nm; receive: 1100–1600 nm |
| 155 Missa OC-2s/0TM-1 si | ingle mode port card (BXRATM16/155IR1) |
| Clock source | Primary or secondary 8 kHz reference – line, BITS, Stratum 3E |
| Connectors | LC |
| Data rate | 155.52 Mbps |
| Framing | STS-3p/STM-1 |
| Free-run clock accuracy | ±20 ppm |
| Line encoding | NRZ |
| Loopbacks | Line, terminal, diagnostic |
| Media | Single mode fiber, 10 um/125 um G.652 |
| Port capacity | 16 |
| Power | -8 to -15 dBm transmit power; -8 to -28 dBm receive sensitivity; 0 to 12 dB path attenuation |
| Statistics | LOS, LOF, LOP, FEBE, AIS, ROL, BIP, HCS, LCD, path unequipped, PLM |
| Typical line length | 15 km (9.32 mi) |
| Wavelength | Transmit: 1274–1356 nm; receive: 1270–1570 nm |
| | |
| | |



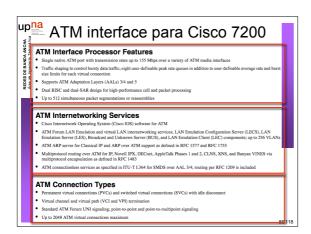


| Clock source | 16 single mode port card (BXRATM4/2488SR1) |
|---|---|
| | Primary or secondary 8 kHz reference – line, BITS, Stratum 3E |
| Connectors | SC SC |
| Data rate | 2,488.32 Mbps |
| Framing | STS-12c/STM-16 |
| Free-run clock accuracy | ±20 ppm |
| Line encoding | NRZ |
| Loopbacks | Line, terminal, diagnostic |
| Media | Single mode fiber, 10 µm/125 µm G.652 |
| Port capacity | 4 |
| Power | -3 to -10 dBm transmit power; -3 to -18 dBm receive sensitivity; 0 to 7 dBm path attenuation |
| Statistics | LOS, LOF, LOP, FEBE, AIS, RDI, BIP, HCS, LCD, path unequipped, PLM |
| Typical line length Wavelength | 2 km (1.24 ml) Transmit: 1266–1360 nm: receive: 1260–1570 nm |
| 2,488 Mbps OC-48/STM-16 | Sc single mode port card (BXRATM4/2488LR1) |
| | Primary or secondary 8 kHz reference – line, BITS, Stratum 3E |
| Clock source | |
| Clock source Connectors | SC |
| | SC 2,488.32 Mbps |
| Connectors Data rate Framing | SC 2,488.32 Mbps STS-48c/STM-16 |
| Connectors Data rate Framing Free-run clock accuracy | SC 2,488.32 Mbps STS-48a/STM-16 ±20 ppm |
| Connectors Data rate Framing Free-run clock accuracy Line encoding | SC 2,488.32 Mbps STS-46pSTM-16 ±20 ppm NRZ |
| Connectors Data rate Framing Free-run clock accuracy Line encoding Loopbacks | SC 2,485.32 Mbps STS-48c9STM-16 ±20 ppm NP2 Line, terminel, diagnostic |
| Connectors Data rate Framing Free-run clock accuracy Line encoding Loopbacks Media | SC |
| Connectors Data rate Framing Free-run clock accuracy Line encoding Loopbacks Wedia Port capacity | SC |
| Connectors Jata rate raming Free-run clock accuracy line encoding Loopbacks Wedia Port capacity Yower | SC 2,488.32 Mbps STS-466/STM-16 320 ppm |
| Connectors Data rate | SC |
| Connectors | SC 2,488.32 Mbps STS-466/STM-16 320 ppm |









| Districa Strict | ATM interface para Cisco 7200 |
|-------------------------------|---|
| Area de Ingenieria Telemática | ATM Media Interface Types • Complies with ATM From, TTU-T, and ETS1 specifications • Complies with ATM From, TTU-T, and ETS1 specifications • Can be self-intered from internal clock or network-timed to support isochronous application. • SONEIT/SDH STS-3c/STM-1 SS-Mbps multimode fiber, ST duplac connector, up to 3 km • SONEIT/SDH STS-3c/STM-1, 15S-Mbps single-mode fiber, ST connectors, up to 15 km • DS3 44/3-8/bps coaskid calles, ISC connectors • ES3 44/3-8/bps coaskid calles, ISC connectors • TAX4 (4PSB IOO Mbps multimode fiber, MIC connectors, up to 3 km |
| | Additional Features Interim Local Management Interface (ILMI) support for address prefix acquisition and ATM service address registration Responds to Septemate 157 (Loopsback) Operations and Maintenance (IAMI) cells Flash EPROM for downloading new software images |
| | CiscoWork's "retwork management integration; traffic shaping setup and PVC establishment through local management console or using Simple Network Management protocol (SNMP) and CiscoView" Three LEDs for quick status checks and problem identification Full SNMP agent and support for RPC 1213 interface MIB, the DS3 MIB per RPC 1407, and future support for emerging AToM MIB specifications |
| | Supports online insertion and removal (OIR) feature, which allows an AIP to be removed or installed without turning off system power |



