

CISCO SPA-UBR10-DS-HD/6G



UBR10012 HIGH DENSITY DOWNSTREAM SHARED PORT ADAPTER

The Cisco 3 Gbps and 6 Gbps Wideband SPAs (Figure 1 and Figure 2) provide dramatically increased density, as compared to the Cisco 1 Gbps Wideband SPA for the Cisco uBR10012. Provisioned with the Cisco 3 Gbps Wideband SPA, the Cisco uBR10012 also provides cable operators with an easy, flexible upgrade path toward a Converged Cable Access Platform (CCAP) and an all-IP infrastructure.

SPECIFICATIONS

| PRODUCT SPECIFICATIONS | | |
|------------------------------|---|--|
| Physical | Occupies one single half-height SPA slot (half slot) One SFP and two SFP+ connectors, which support three 1 Gigabit Ethernet modules or dual 10 Gigabit Ethernet modules Hot-swappable; either side sub slot (0 or 1) can be used Weight: 1.32 lb (0.6 kg) Dimensions (H x W x D): 6.69 x 0.75 x 6.69 in (170 x 19 x 170 mm) | |
| Software compatibility | Compatible with Cisco IOS Software Release 12.2(33)SCH and later Cisco IOS Software Release 12.2 images supported on the Cisco uBR10012 Universal Broadband Router | |
| Power | Unit power: 30W | |
| Reliability and availability | Mean time between failures (MTBF): >500.000 hr | |
| Environmental | Operating altitude: -197 to 13,123 ft (-60 to 4000m) Conforms to IEC/EN/UL/CSA 60950 requirements up to 2000m Storage temperature: -4 to 149°F (-20 to 65°C) Operating temperature, nominal: 41 to 104°F (5 to 40°C) Storage relative humidity: 5 to 95% Operating relative humidity: 10 to 90% | |
| Supported SFP ¹ | 10 Gigabit Ethernet model • SFP-10G-SR-X • SFP-10G-LR-X 1 Gigabit Ethernet model • SFP-GE-T • SFP-GE-Z • GLC-SX-MMD • GLC-ZX-SMD • GLC-LH-SMD | |
| Regulatory compliance | Safety • UL60950 and CAN/CSA-C22.2 No. 60950 • IEC/EN 60950 • AS/NZS 60950 Electromagnetic Emissions • EN55022: Class A • CISPR 22: Class A • CFR 47 Part 15 Class A • ICES -003 • VCCI • AS/NZS:CISPR22 CNS-13438 Class A Electromagnetic Immunity • EN55024 • EN61000-3-2 • EN61000-4-2: ESD immunity • EN61000-4-2: ESD immunity • EN61000-4-3: Radiated RF field immunity • EN61000-4-4: Immunity to electrical fast transients • EN61000-4-6: RF conducted immunity | |

© 2019 Normann Engineering GmbH • Linzer Str. 139 • A-4600 Wels • T +43 (0) 7242 70 921-0 • office@normann-engineering.com • Irrtum, Satz- und Druckfehler vorbehalten



| Network Equipment Building | Designed to meet the requirements of: | |
|--|--|--|
| System (NEBS) | • Level 3 | |
| Oystelli (NEBO) | • GR-1089 Core 2011 | |
| Mechanical | • IEC 68-2-1, IEC 68-2-2, IEC 68-2-56: Operational temperature and humidity | |
| | IEC 68-2-41: Operational Altitude | |
| | IEC 68-2-27: Operating shock | |
| | IEC 68-2-64, IEC 68-2-6, IEC 68-2-47: Operating and nonoperating vibration | |
| | IEC 68-2-40: Nonoperating altitude | |
| | IEC 68-2-27, IEC 68-2-32: Nonoperating mechanical shock | |
| | IEC 68-2-1, IEC68-2-2: Nonoperational Temperature | |
| | IEC 68-2-3: Nonoperating humidity | |
| | IEC 68-2-14, IEC 68-2-33: Nonoperating temperature shock | |
| LEDs | • One SPA status LED (amber or green): Off indicates that power is off, or SPA | |
| | is in reset status. Solid amber indicates that the SPA power is on and good, and | |
| | the SPA is being configured. Solid green indicates the SPA is ready and | |
| | operational | |
| | • One license LED (green): Solid amber indicates that there is no license | |
| | installed or invalid license. Flashing green indicates the license is available for | |
| | 1~71 channels. Solid green indicates that the SPA has been equipped with full | |
| | license (72 channels) | |
| | • One status LED for each 10 or 1 Gigabit Ethernet Interface (amber or green): | |
| | On indicates that the optical module is not present. Solid amper indicates that | |
| | link of with the expected. Election of areas indicates that there is traffic through | |
| | the optical links | |
| | GLC-SY-MMD (SEP-GE-S) ontice support a maximum distance of 1804 ft | |
| 10 and 1 Gigabit Ethernet optical connectivity options ¹ | (550m) | |
| | • GLC-LH-SMD (SEP-GE-L) optics support a maximum distance of 6.21 mile (10 | |
| | km) | |
| | • GLC-ZX-SMD (SEP-GE-Z) optics support a maximum distance of 43.5 mile (70 | |
| | km) | |
| | • SFP-GE-T support a maximum distance 328 ft (100m) | |
| | • SFP-10G-SR-X optics support a maximum distance of 984 ft (300m) | |
| | • SFP-10G-LR-X optics support a maximum distance of 6.21 mile (10 km) | |

ORDERING INFORMATION

| PRODUCT NAME | PART NUMBER | | |
|---|--------------------|--|--|
| 3G SPA Hardware | | | |
| UBR10012 High Density Downstream Shared Port Adapter; Base HW | SPA-UBR10-DS-HD | | |
| UBR10012 High Density Downstream Shared Port Adapter; Base HW Spare | SPA-UBR10-DS-HD= | | |
| Spare SPA w/ 0 License | SPA-UBR10-DS-SP= | | |
| 6G SPA Hardware | | | |
| UBR10012 High Density Downstream Shared Port Adapter 6G | SPA-UBR10-DS-6G | | |
| UBR10K High Density Downstream Shared Port Adapter 6G, SPARE | SPA-UBR10-DS-6G= | | |
| Spare 6G SPA w/ 0 License | SPA-UBR10-6G-SP= | | |
| Software License | | | |
| 1 DS license: Must configure with SPA-UBR10-DS-HD only | SWLIC-SPA-UBR10-DS | | |
| 1 Count DS license for SPA | L-SPA-UBR10-DS | | |
| PAK Container For SPA | L-SPA-UBR10-SWLIC= | | |
| SFP Optics | | | |
| 1000BASE-ZX Gigabit Ethernet SFP (DOM) | SFP-GE-Z | | |
| 1000BASE-T SFP (NEBS 3 ESD) | SFP-GE-T | | |
| 1000BASE-SX SFP transceiver module, MMF,850nm, DOM | GLC-SX-MMD | | |
| 1000BASE-ZX SFP transceiver module, SMF, 1550nm, DOM | GLC-ZX-SMD | | |
| 1000BASE-LX/LH SFP transceiver module, MMF/SMF, 1310nm, DOM | GLC-LH-SMD | | |
| 10G SFP+ Optics | | | |
| 10GBASE-SR SFP Module for Extended Temp range | SFP-10G-LR-X | | |
| 10GBASE-SR SFP Module for Extended Temp range | SFP-10G-SR-X | | |