SNTU 764FC/2W
SNTU 764FC/4W
SNTU 764FC/8W

SNTU 764FC Series

EFM G.SHDSL.bis



- Point to point Ethernet extension over multiple G.SHDSL.bis copper lines
- Compliant with IEEE 802.3ah EFM 2Base-TL bonding technology
- Compliant with ITU-T G.991.2 standard, TC-PAM 16/32/64/128 line coding
- 1, 2 or 4 pairs G.SHDSL.bis with 5.7Mbps per pairs
- Support extension rate up to 60Mbps over 4 pairs of copper
- CO and CPE mode selectable
- Automatic line rate selection with Line Probe enabled
- Front panel status LED indicators for easy monitoring
- Easy installation with iEAC-16, Telnet (SSH), WEB GUI (HTTPS) and SNMP v1/v2c/v3
- Front panel test button for easy OAM loop diagnostic
- Provides extensive diagnostics, including loopback, G.SHDSL.bis performance monitoring
- Easy software upgrade for field-deployed units via Web or TFTP
- DSL line protection for data transmission
- Ethernet switching and bridging with VLAN prioritization and QoS
- Supports security-link feature for specific DSL link
- IP Sharing function supports Static route, DHCP client/server/relay, NAT and DNS relay.
- Interoperate with Comet 160xF series

TAINET's SNTU 764FC series, is so called Ethernet Access Devices (EAD), Ethernet Media Data Converter (MDC) or Ethernet DSL modem, which takes advantage of the latest G.SHDSL.bis standard, is a mini-terminal enabling the transport of traffic from Ethernet interface with speed 5.7/ 11.4/ 22.8Mbps over EFM bonded 2/4/8 wires G.SHDSL.bis link.

SNTU 764FC series supports high-speed dedicated symmetrical data transmission and utilizes DSL bandwidth. The automatic line rate can be up to 15Mbps over 2-wire copper line. SNTU 764FC series works as Ethernet extender, with up to 8 wires it could enhance the line rate and provide the aggregated bandwidth over 60Mbps. Furthermore, SNTU 764FC series is line card of iEAC-16, the intelligent Ethernet access chassis, working as a central office for ISP long distance Ethernet Access Service. It covers the disadvantages of ADSL and VDSL and provides the point to multi-point services.

SNTU 764FC series is a perfect solution for Telecom Carriers, Service Providers and business users. To reduce operation/management burden, SNTU 764FC series can control and monitor remote unit via Embedded Operation Channel (EOC) by following ITU-T G.991.2. Administrators can also easily configure SNTU 764FC series through Telnet (SSH), Web (HTTP/HTTPS) or through SNMP agent.

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Model

- SNTU 764FC/2W, line card type, G.shdsl.bis NTU, 2-wire, 2 FE
- SNTU 764FC/4W, line card type, G.shdsl.bis NTU, 4-wire, 2 FE
- SNTU 764FC/8W, line card type, G.shdsl.bis NTU, 8-wire, 2 FE
- Interoperability with stand alone Comet 160xF Series
  - Comet 1602F, stand alone, 2-wire, 4 FE
  - Comet 1604F, stand alone, 4-wire, 4 FE
  - Comet 1608F, stand alone, 8-wire, 4 FE

Network Interface - G.SHDSL.bis

- Type: 2, 4 or 8-wire
- Standard: ITU-T G.991.2 Annex A,B,F,G, ETSI 101 524
- Bonding protocol: IEEE 802.3ah EFM 2Base-TL
- Line rate: n x 64Kbps, n=3~239(2w), 6~478(4w), 12~956(8w)
- Connector: 1 x RJ-45
- Line coding: TC-PAM 16/32/64/128
- Impedance: 135 Ω
- ITU K.21 compliant

User Interface

- Ethernet type: 10/100 Base-T
- Connector: 2 x RJ-45
- Support 802.3x flow control
- Auto-MDI/MDIX detection, Full duplex / Half duplex support
- Auto-negotiation for speed and duplex
- Support Layer 2 function
- IPv4/IPv6 supports

Ethernet function

- Support 802.1d transparent bridge function
- Supporting Bridge filter function based on source MAC addresses
- Scalable per port bandwidth control (Step = 64K, up to 100M)
- Support 802.3x flow control,
- 2K MAC learning address
- Ethernet packet length up to 2048 bytes
- Provide 802.1q VLAN tagging, up to 4094 VLAN and VID
- Support 802.1p QoS facility
- Ethernet Ring Protection switching (ERPS)
- Support SNTP protocol to get network time
- DHCP Client/ Server/ Relay

- Static Routing protocol and dynamic routing protocol include RIPv1/v2, OSPFv2, BGP-4 and Virtual Router Redundancy Protocol (VRRP)
- Support Point to point PPPoE/ PPTP/ L2TP/ IPSec
- Network Address Translation (NAT)

Management

- Configuration via Telnet (SSH), WEB GUI (HTTP/HTTPS), SNMP v1/v2c/v3 and TR-069
- TACACS+ (Terminal Access Controller Access Control System) for Authentication, Authorization, and Accounting
- Support iEAC-16 local or remote management
- Local and Remote loopback for diagnostic
- Support Performance Monitoring function
- Firmware upgradeable via Web or TFTP
- Front panel test button for easily loop healthy testing
- Front panel reset to default button
- Support three access levels for administrator, operator, user, and operation log
- Support login password complexity of 6 characters, uppercase and lowercase letters, digits, special symbols
- Anti camouflage attack mechanism: lock IP and delay login

LED Indicators

- PWR, CO, ALM, TST, DSL1~DSL4, ETH LNK/SPD

Power Requirement

- AC/DC, DC/DC external power adapter (12V, 1A)

Dimension

- SNTU 764FC: 84(W) x 168(D) x 24(H) mm

Operating Environment

- Operation Temperature: 0 °C ~ 50 °C
- Storage Temperature: -20 °C ~ 75 °C
- Humidity: 90%, non-condensing

