

FM600400/2xA

Telsey FM600400/2xA is a powerful router for Small Offices and Medium Enterprises that efficiently delivers data, security and VoIP services to business customers. In addition to a WAN Ethernet interface, it integrates an ADSL2+ modem router and it is mountable into 19" racks, making the installation into office environment more flexible and easier.

Thanks to a powerful VoIP telephone adapter engine, end users can also preserve their analog phones and PBXs getting new VoIP services provided by broadband operators. At the same time, telecom operators deliver distinctive bundling of data and telephone services, making their offer more attractive and getting a better retention of their customers.

KEY FEATURES

- » Ethernet WAN interface
- » Integrated ADSL2+ modem router
- » Integrated 4 Ethernet port switch and 1 routed Ethernet port, with excellent layer 3 routing and firewalling features.
- » IP VPN support
- » QoS management
- » 4 FXS interfaces where PBXs or telephones can be connected
- » 4 simultaneous VoIP calls (voice, fax)
- » Full choice of VoIP signalling protocols and codecs
- » Easy configuration through a complete Command Line Interface and Web Interface. Remote Management and Upgrade through Telnet, SNMP, TFTP
- » Mountable into 19" racks

BENEFITS

- » Easy integration into LAN of Small Offices or Medium Enterprises when external modems are used
- » Enable to have more flexible and effective installation
- » Service providers can efficiently deliver data services within the SOHO/SME environment.
- » Allows secure remote connections between main and branch or home offices through Internet.
- » Provides excellent Quality of Services in a bundled voice, data and video services environment
- » Preserve users' current telephones and PBX equipments without the need to add external adapters to get VoIP services.
- » Customers can benefit of telephone, FAX and modem services provided through VoIP
- » Maximum flexibility for quick integration with operators' network infrastructure
- » Make mass deployment easy and quick
- » Easy installation into racks commonly used into offices



FM6004002XA

TECHNICAL HIGHLIGHTS

WAN INTERFACE

- > 1 Ethernet 10/100 BaseT half/full duplex autonegotiating RJ-45 connectors

DATA

ADSL/ADSL2/ADSL2+ integrated modem router:

- > ANSI T1.413 I2
- > ITU Automode
- > G.992.2 G.Lite
- > G.992.1 Annex A/Annex B - G.dmt
- > G.992.3 (ADSL2)
- > G.992.5 (ADSL2+)
- > UBR, CBR, rtVBR, nrtVBR
- > QAM (F4/F5) supported
- > Up to 8 PVC
- > LLC/SNAP for bridged/routed PDU's (RFC 2684, RFC 1483)
- > PPPoE (RFC 2516); PPPoA (RFC 2364)
- > User authentication PAP (RFC 1334) and CHAP (RFC 1994)
- > IPoA ; Bridge ;
- > MER (VCMUX, LLC/SNAP-Bridging)

LAN Interfaces

- > 4 Ethernet 10/100 BaseT half/full duplex autonegotiating. RJ-45 connectors

Layer 3

- > NAT/PAT (RFC 1631)
- > OSPF
- > Static Routing
- > DMZ support
- > RIPv2

Firewalling

- > Access Control List
- > Packet filtering
- > Application content filtering

IP VPN

- > IP SEC
- > Encryption algorithm: DES, 3DES
- > Authentication algorithm : MD5 , SHA-1
- > Authentication Header (AH)
- > Key Management : IKE, Manual, Pre-shared Keys

QoS

- Supports traffic prioritization
- > Port prioritization
- > DSCP/TOS
- > IEEE 802.1p
- > DiffServ engine
- > Prioritization of VoIP packets towards data packets

Other

- > DHCP server
- > TFTP client
- > Syslog client

VOICE

- > 4 FXS RJ-11 ports
- > Up to 4 simultaneous VoIP calls

FXS Interfaces

- > Dial mode supported: DTMF
- > Tones: customizable.
- > Ringing voltage: 35 Vrms, Sine wave
- > Ringing frequency: 25 Hz default (frequency and cadence programmable for each FXS interface)
- > REN : 5 per FXS port
- > On-Hook voltage: 48 V nominal
- > Off-hook current: 22 mA (other values programmable)
- > Terminating impedance: 600 Ohm default (other impedances programmable)
- > Loop Signaling: Loop Start
- > Loop length: 200 m max

VoIP Protocols

- > SIP

Properties

- > Echo cancellation G.168
- > Silence suppression/comfort noise generation
- > Modem/fax passthrough

Voice Codecs

- > G.711, G.729, G.723

Fax over IP Protocols

- > T.38

Caller I.D.

- > V.23 Modem and DTMF transmitter on board

MANAGEMENT

- > Complete Command Line Interface (CLI)
- > Agent SNMP v.2
- > Remote Telnet console
- > Local RS232 console
- > Upgradeable via TFTP
- > Web Interface

POWER SUPPLY

- > Integrated power supply, 230 Vac, 50 Hz
- > Switch ON/OFF button

PHYSICAL DIMENSIONS

- > Width 300mm ; Depth 158 mm ; Height 46 mm ; Weight 740gr.
- > Mountable into 19" racks

ENVIRONMENTAL CONDITIONS

- > Operation temperature : 5 - 45° C
- > Humidity : 85% (non condensing)
- > Storage temperature : -5 - 55° C

Disclaimer

All statements, technical information and recommendations contained in this documentation have been carefully checked for reliability; however no responsibility is assumed for inaccuracies. The information contained in this documentation is subject to change without notice.