

LTE/HSPA+/UMTS/CDMA/EDGE/GPRS Routers

Choose the right model by data transfer technology:

ROUTER	MOBILE WIRELESS NETWORK TECHNOLOGY	MAX DOWNLOAD	MAX UPLOAD
ER75i v2 GPRS/EDGE router	GPRS/EDGE	236,8 Kbit/s	118,4 Kbit/s
UR5i v2 UMTS/HSPA+ router	UMTS/HSPA+ & GPRS/EDGE	14,4 Mbit/s	5,76 Mbit/s
UR5i v2 Libratum router	UMTS/HSPA+ & GPRS/EDGE	14,4 Mbit/s	5,76 Mbit/s
LR77 v2 LTE router	LTE & UMTS/HSPA+ & GPRS/EDGE	100 Mbit/s	50 Mbit/s
CR10 v2 CDMA router	CDMA 2000 1X, EV-DO Rev. A, B, 450 MHz bands	14,7 Mbit/s	5,4 Mbit/s
UCR11 v2 UMTS/CDMA router	UMTS/HSPA+ & GPRS/EDGE & CDMA2000 1X, EV-DO Rev A, B, 450 MHz bands	21,1 Mbit/s	5,76 Mbit/s
Bivias v2 router	by the modules	by the modules	by the modules
XR5i v2 LAN router	ETHERNET 10/100	100 Mbit/s	100 Mbit/s

	ER75i v2	UR5i v2	UR5i v2 Libratum	LR77 v2	CR10 v2	UCR11 v2	Bivias v2
Frequency Bands							
GSM 900, 1800 MHz	✓	✓	✓	✓		✓	✓
GSM 850, 1900 MHz	✓	✓	✓	✓		✓	✓
UMTS (WCDMA/FDD) 900, 2100 MHz		✓	✓	✓		✓	✓
UMTS (WCDMA/FDD) 850, 1900 MHz		✓	✓	✓		✓	✓
LTE 800, 900, 1800, 2100, 2600 MHz				✓			✓
CDMA 2000 450 MHz					✓	✓	✓

Functions & Software Features

Conel routers enhanced functionality incorporates self-diagnostics and a HW watchdog to ensure secure and consistent operation and ultra-reliable wireless connections.

For critical applications, these routers offer wireless redundancy through dual SIM failover with SMS and email messaging and control capability for remote alerts and resets. They support the most commonly used LAN/WAN network protocols and Conel's custom software allows for easy, flexible and effective networking and management.

Networking

- DHCP: automatic IP addressing in LAN network
- NAP/PAT: IP address and port translation
- Firewall: filtering of addresses, ports, protocols
- VRRP: virtual backup router function
- DynDNS client: access to the dynamic IP address
- VLAN 802.1Q: virtual LAN
- QoS: quality of service
- PPPoE Bridge: PPP over Ethernet Bridge mode
- Dial-in: communicate over dial CSD call
- NTP client, NTP server: time synchronization

2x SIM for all FULL version wireless routers

- Back-up by switching between two independent mobile networks
- Switch when data limit is exceeded, when roaming is detected or by any other programmable option

VPN Tunneling

- IPSec, OpenVPN, PPTP, L2TP, EasyVPN, GRE
- Authentication by certificates, shared keys, name/password

Remote Router Supervision & Mass Network Management

- HTTP/HTTPS, Telnet/SSH for local and remote configuration and firmware updates
- Automatic configuration and firmware updates from FTP/HTTP server by schedule
- Up to 4 independent configuration profiles can be stored and remotely switched using scripts, SMS messages, I/O, etc.
- Additional software for easy networking and monitoring, like SmartCLUSTER and R-SeeNet

Diagnostics

- Detailed logs of operational information, including signal status and data traffic
- Signal level data, cell identifiers and data traffic are saved in router's memory for up to 2 months
- SNMP: router diagnostics, communication with I/O and MBUS
- LED indication: signal strength, connection status, ports

SMS & E-mail Info

- Information about status, connection or disconnection and many other parameters
- SMS control: on/off connection, switching SIM, router profile, I/O
- SMS communication: AT commands (RS232 and TCP/IP), I/O or HTTP

Modular LINUX Software Environment

Open LINUX based system allows use of common LINUX commands, scripts and other features. Conel routers offer an extension of standard firmware with optional software plug-ins. You can create your own plug-in and simply apply it to the router. The router has 128kb non-volatile RAM memory, ready for data collection and processing applications.

Software Plug-ins

- Easy VPN client: secure, encrypted VPN
- Dynamic routing protocols: BGP, OSPF, RIP, IS-IS
- IGMP: multicast protocols
- MODBUS RTU/TCP gateway and mapping: convert data from RTU to TCP/IP format
- Captive Portal



ER75i v2 UR5i v2 Libratum UR5i v2 LR77 v2 CR10 v2 UCR11 v2 Bivias v2 XR5i v2F / XR5i v2E

MOBILE WIRELESS NETWORK TECHNOLOGY

GPRS	✓	✓	✓	✓		✓	optional	
UMTS/HSPDA		✓	✓	✓		✓	optional	
UMTS/HSPA+		✓	✓	✓		✓	optional	
LTE				✓			optional	
CDMA 2000 1X, EV-DO Rev. A, B					✓	✓	optional	
WAN ETHERNET	optional	optional	optional	optional	optional	optional	optional	✓
Two VF modules						✓	✓	

COMMUNICATION INTERFACES AND EXPANSIONS

Ethernet 10/100	✓	2x	✓	✓	✓	✓	✓	✓ / 2x
Ethernet 10/100 3-port switch	optional		optional	optional	optional	optional	optional	
Wi-Fi (IEEE 802.11 b, g, n)	optional	optional	optional	optional	optional	optional	optional	optional
USB Host	✓		✓	✓	✓	✓	✓	✓ / -
RS232/RS422/RS485	optional		optional	optional	optional	optional	optional	optional / -
MBUS, Wireless MBUS	optional		optional	optional	optional	optional	optional	optional / -
I/O CNT	optional		optional	optional	optional	optional	optional	optional / -
I/O CNT (1xIN/1xOUT)	✓		✓	✓	✓	✓	✓	✓ / -
GPS Receiver			optional	optional			optional	

DESIGN, DIMENSIONS, SIM, ENVIRONMENTAL

Plastic Casing (51x87x116mm)	optional	optional	optional	optional	optional	-	-	optional
Metal Casing (42x87x113mm)	optional	optional	optional	optional	optional	optional	42x87x148mm	optional
2xSIM Card	optional	✓	optional	optional	optional	✓	✓	
Antenna Rx Diversity		✓	✓	✓	✓	optional	✓	
Power Supply 10V - 30V DC	✓	✓	✓	✓		✓	✓	✓
Op. Temperature -40 to +75 °C	✓	✓	✓	✓	+60 °C	+60 °C	✓	✓
DIN holder TS35/TS32	✓	✓	✓	✓	✓	✓	✓	✓

FUNCTIONS

Linux	✓	✓	✓	✓	✓	✓	✓	✓
IPSec (DES, 3DES, AES, MD5, SHA-1, DH2, DH5)	✓	✓	✓	✓	✓	✓	✓	✓
OpenVPN, PPTP, L2TP, GRE	✓	✓	✓	✓	✓	✓	✓	✓
Authentication (X.509 certificate, Pre-shared key, PW)	✓	✓	✓	✓	✓	✓	✓	✓
EasyVPN	optional	optional	optional	optional	optional	optional	optional	optional
Firewall	✓	✓	✓	✓	✓	✓	✓	✓
DHCP	✓	✓	✓	✓	✓	✓	✓	✓
NAT/PAT	✓	✓	✓	✓	✓	✓	✓	✓
HTTP/HTTPS Server	✓	✓	✓	✓	✓	✓	✓	✓
Telnet/SSH	✓	✓	✓	✓	✓	✓	✓	✓
DynDNS	✓	✓	✓	✓	✓	✓	✓	✓
FTP Server	✓	✓	✓	✓	✓	✓	✓	✓
NTP Server, NTP Client	✓	✓	✓	✓	✓	✓	✓	✓
SNMP	✓	✓	✓	✓	✓	✓	✓	✓
VRRP	✓	✓	✓	✓	✓	✓	✓	✓
SMTP, E-mail, SMS Functions	✓	✓	✓	✓	✓	✓	✓	✓
VLAN 802.1Q	✓	✓	✓	✓	✓	✓	✓	✓
QoS, IGMP, BGP, OSPF, RIP	optional	optional	optional	optional	optional	optional	optional	optional
PPPoE Bridge	✓	✓	✓	✓	✓	✓	✓	✓
COM Port TCP/UDP server/client	✓		✓	✓	✓	✓	✓	✓ / -
MODBUS RTU/TCP Gateway	optional		optional	optional	optional	optional	optional	optional / -
4 Configuration Profiles	✓	✓	✓	✓	✓	✓	✓	✓
Automatic Configuration and FW Update	✓	✓	✓	✓	✓	✓	✓	✓

ADDITIONAL SOFTWARE SUPPORT

SW Plug-in Modules	✓	✓	✓	✓	✓	✓	✓	✓
R-SeeNet	✓	✓	✓	✓	✓	✓	✓	✓
Smart Cluster	✓	✓	✓	✓	✓	✓	✓	✓