IDT

¿Cell+™

cellular network router with integrated iMesh

UTC-ready

Tested with UG405-compliant OTUs from Dynniq, Siemens and telent to deliver reliable second-by-second UTC

Integrated iMesh

With ***¿Mesh*** multipoint-to-multipoint wirelsss functionality included, ***¿Cell+*** can connect directly to an ***¿Mesh*** cluster and provide the main or secondary backhaul

ADSL alternative

By offering speeds up to 150Mbps ***¿Cell+*** can replace aging BT multipoint circuits or provide an effective alternative (or secondary backhaul) for ADSL

Network independent

Use any SIM (even PAYG) from any network. There is no need for a managed service from your network provider

Private IP addresses

Retain the private IP addresses of your on-street assets independently of your network provider

Remote Management

Configure, monitor and manage your ***¿Cell+*** router using freely available, open standard software tools

VPN

Supports multiple IPsec VPN tunnels to more than one instation using all standards: 3DES, AES, MD5, SHA1,

Connect other wireless assets

Use the integrated ***¿Mesh*** to support other wireless devices such as cameras, AQMs etc.

Integrated Journey Tiime

Optional integrated journey time data collection enables remote locations to be included in your traffic management strategy

The ***¿Cell+***™ router from IDT builds on the success of earlier products and now incorporates integrated ***¿Mesh***™ functionality, 4G/LTE operation (with 3G/2G fallback), GPS and **integrated journey time monitoring** (as an option).

Offering speeds up to 150Mbps (dependent on network/SIM) it delivers high speed wireless connectivity between the roadside and a central management system. Familiar features have been retained from earlier product generations including IP address management, fast re-connect times, network monitoring and remote configuration.

¿Cell+ is available in two enclosure formats as shown above

- An external-grade router which can be powered by mains, dc or power-over-ethernet.
- A cabinet-grade router where the ***¿Cell+*** electronics is installed in a roadside cabinet. This uses a passive antenna up the traffic signal pole. This option is used where ease of maintenance might be key as there is no electronics up the pole.

¿Cell+ also supports our Journey Time Monitoring solution, ***¿JTM***. Available as an optional add-on, ***¿JTM*** obtains journey time information by detecting smartphones and similar devices. For further details of ***¿JTM*** please see the ***¿JTM*** datasheet.

IDT

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- Rapid provision of high bandwidth communications links
- Use in UTC systems to replace BT backhaul
- Supports both Dynniq and Siemens UTC (when used with UG405-compliant OTUs)
- Low-cost CCTV using any suitable IP camera
- Full UTMC network support
- Independent of mobile network provider, use with any SIM (even PAYG)
- Supports multiple IPsec VPN tunnels to more than one instation using all standards: 3DES, AES, MD5, SHA1, DH keys

Technical Specifications

General

Connectivity	4G - 4GPP LTE FDD bands B1, 3, 5 ,7 ,8 & 20 3G - HSPA+/UMTS 850, 900 & 2100MHz Speeds up to 150Mbps iMesh - 802.11 b/g/n up to 300Mb/s on 2.45GHz EDGE Speeds 236kbps downlink, 59kbps uplink
Interfaces	4G, GPS, 2 x SMA ports for iMesh and GPS 2 x LAN ports 10/100BASE-T (RJ-45) 1 x WAN ports 10/100BASE-T (RJ-45)

Internal option

Environmental	-30 to +70°C	5 – 95% RH	IP54
Dimensions	100 x 42.5 x 102mm (height x depth x width)		
Power	220Vac or 12-24V DC		
Weight	0.4 Kg		

Outdoor option

Environmental	-30 to +70°C	5 – 95% RH	IP67
Dimensions	220 x 200 x 85 mm (height x width x depth) with integral antenna		
Power	220Vac or Power over Ethernet		
Weight	2.0 Kg		

Standards

Tested, certified and CE marked to the following:
ETSI EN 301 489-1 V2.2.0 (2017-03) Draft
ETSI EN 301 489-17 V3.2.0 (2017-03) Draft
ETSI EN 301 489-52 V1.1.0 (2016-11) Draft
EN 55032:2015
EN 55024:2010/A1:2015
EN 61000-3-2:2014
EN 61000-3-3:2013
ETSI EN 301 908-1 V11.1.1 (2016-07)
ETSI EN 301 908-2 V11.1.1 (2016-07)
ETSI EN 301 908-13 V11.1.1 (2016-07)
ETSI EN 300 328 V2.1.1 (2016-11)
EN 62311:2008
EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013

About IDT

IDT is a leading provider of communication networks for smart cities and intelligent transport systems (ITS). Our technology and products deliver secure communications to over 5,500 traffic signal controlled junctions and our iCell routers are in over 2,500 UTMC-compliant variable message signs and other ITS assets.

For further information on any of IDT's products or to discuss how they can be used please contact us at:

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