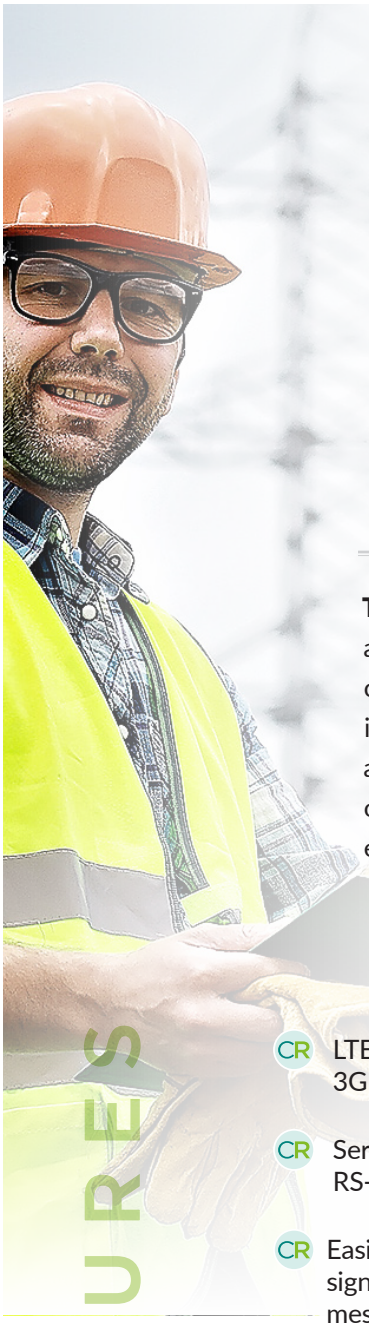

TELiG E155

A powerful computing platform supporting the latest wireless communication standards. Remotely manage and monitor your networks with our robust, full-featured industrial edge router capable of supporting multiple services and multiple LTE configurations in a single box.

Anterix™ ACTIVE

TELiG E155 utilizes an ARM Cortex A53 processor, and leverages LTE as its primary wireless communication technology. Optional features include GPS enabled asset tracking and timing, and WiFi. The integration of these technologies onto a powerful, modular computing platform ensures investments are future-proof.

The **TELiG E155** is an optimal UE solution for industrial grade smart private networks designed for Smart Grids, Smart Cities, and Smart Campuses. The TELiG's feature rich software platform, powerful processing capabilities and ample memory combine to provide the tools needed for developers to create next generation networks with distributed intelligence.

FEATURES

- LTE Support for all 3GPP Bands
- Serial Interfaces for RS-232/RS-485
- Easily embedded into traffic signal control, ITS, dynamic message sign and CCTV cabinets
- Edge computing capabilities for existing and new infrastructure
- Self-Provisioning for easy installation
- GPS and gyroscope for asset tracking and damage alarms (optional)
- Verizon, FirstNet, AT&T, UScellular, Anterix, CBRS
- Ideal for ITS/Transportation Traffic Signalization & Surveillance/Incident Detection Networks and Railway/Trackside control and monitoring systems

Watch Video Tour of the TELiG E155
Modular design allows for multiple configuration options, network diversity, and technology evolution.

INDUSTRY FIRST VALUE

COUNCILROCK®
Smart Private Networks

- Support for multiple LTE public or private variants including Cat M/NB in the same device.
- Deploy on the Public Carrier of your choice today. Seamlessly migrate to private network tomorrow.

TELiG E155

COMPUTING SPECIFICATIONS

- Freescale™ ARM® Cortex™
- A53 Quad Core SoC Processor
- Up to 1GByte Standard DDR4 SDRAM Memory
- Up to 64 GBytes Standard eMMC Memory
- Serial Configuration EEPROM
- Open Source Linux OS: Open WRT customized for DA and support for Python
- m.2 expansion card slot
- Programmable GPIOs

COMMUNICATIONS FEATURES

- LTE in all 3GPP Bands (FDD & TDD), up to Cat 12 DL, Cat 13 UL with dual sim
- Optional Precision GPS and Gyroscope
- Optional WiFi
- Fully programmable I/O capabilities
- SNMP or COAP management system
- Supports configurations with NB1/cat M1 for narrow band channels (opt)

NETWORKING FEATURES

- Bridging and routing
- Fully managed switch support (802.1q)
- Quality of Service (802.1p)
- MODBUS/TCP/UDP/Serial
- DNP3 TCP/UDP/Serial
- DHCP IPv6 and IPv4
- 2 Serial Ports: RS-232/RS-422/RS-485
- One 10 /100/1000 Ethernet
- IP Router /Firewall/VPN Capabilities BGP, MPLS, RIPv2, EIGRP, LDP, ISIS, OSPF, DMVPN, RPL, GRE, etc.

MECHANICAL SPECIFICATIONS

- Dimensions: 4.92"W x 1.43"H x 4.61"D;
- Weight: < 1 lb

PROTOCOL SPECIFICATIONS

- DNP3 Serial and IP
- MODBUS Serial and IP
- IPV4 and IPV6
- IEC 60870-5-101/104 protocol translation
- IPv4 in IPv6 transitioning protocols MAP-T, MAP-E, SIIT, DS-Lite
- SNMP v1, 2c and v3
- CoAP

ELECTRICAL SPECIFICATIONS

- 9-60VDC
- Alarm Contacts
- Power consumption (typical) 2 - 4 watts
- Power Consumption (sleep mode) 400m Watts
- Power Consumption (peak) 10 Watts

ENVIRONMENTAL SPECIFICATIONS

- Temperature range: -40°C to +70°C with type test up to 85°C (185°F) for 16 hours
- Humidity: 5% to 95% non-condensing

REGULATORY COMPLIANCE

- IEEE1613, UL Safety, PTCRB, AT&T, CBRS Alliance
- FCC part 15 and IC
- Class 1 Div 2 Groups A, B, C, and D T4 locations

WIRED & WIRELESS INTERFACES

- UART & USB interfaces for other modules
- 2 SIM card slots with network failover

SECURITY FEATURES

- Crypto-authentication
- IEEE 802.1x-based authentication
- Certificate-based identity [Radius and AAA support]
- Encryption : 3DES, AES 128/192/256, SHA
- 256/384/512 HMAC
- Network Layer Encryption (IPsec)
- Stateful Layer 3 Firewall with MAC Filtering, NAT, Source NAT, Static NAT, Port Forwarding
- FIPS 197 compliant encryption
- Embedded location and orientation sensors
- NIST certified hardware-based cryptographic calculation algorithms and secure key/secret

EDGE INTELLIGENCE FRAMEWORK

- 3rd Party Applications
- OSGi
- Node JS/JavaScript
- Docker Containers
- LXC Containers
- Snaps

DEVICE MANAGEMENT

- Remote and Local Management and Monitoring
- SNMPv3 and CoAP - based device management
- “Element Management System”
- Locally connected web-browser based GUI
- Over-the-Air update capability
- Battery Management / Monitoring / Predictive maintenance

OPTIONAL OUTDOOR ENCLOSURE

- UL 508, Type 4X Enclosure
- Meets IP 66 / 67; IK08 Impact Rating
- Rated Insulation: AC 690 V / DC 1000 V
- Waterproof Gasket
- UL 94, 746C Flame Rating
- Optional UPS with Lithium battery (1200Wh)
- Lithium Battery NMC outdoor rated with pole mount bracket

Notes:

1. This datasheet as of November 2021 is subject to change
2. Band availability model dependent
3. Please consult Council Rock Sales for price & availability

FC PART 15 COMPLIANT CE c UL us Intertek RoHS

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