

Agility in Communications

UAS-I

Low SWaP BVLOS IP Point-To-Point Data Link

Specifically designed to deliver Beyond Visual Line-of-Sight connectivity within Unmanned Aerial Systems (UAS)

- Developed to accommodate tight space constraints of smaller platforms
- Low Size Weight and Power
- 'Plug and Play' software infrastructure designed for future-proofing
- Configurable for operation over a wide range of satellite networks
- Integrated Power Management and external interface module

The UAS-I product range when configured for end-to-end connectivity provides a guaranteed point-to-point satellite communications link between the ground and air within an unmanned aerial system. Each node is built from the revolutionary e2Eaccess core technology which brings market-leading miniaturisation, re-configurability and upgrade paths to any equipment purchase. Each node can be further customised to operate with a range of RF modules dependant on client needs.



Features

- Software Defined Radio infrastructure designed to easily host specific client protocols
- High degree of modularity to allow easy component swap-out to serve specific comms needs
- Separate or integrated Antenna for different platform designs
- Interface abstraction capability, enabling customer interface integration
- Advanced in-house development capability enabling rapid customisation to client needs

Other Available Modules

- Radio Frequency Module (RFM) for L-band operation. Antenna Module optimised for performance over
- Inmarsat Alphasat. In-house capability for new RF module development based on client needs.

Benefits

BVLOS

Low SWaP delivers cost-effective Beyond Visual Line-of-Sight (BVLOS) connectivity via satellite to smaller airborne platforms.

Configurability

Suitable for a range of satellite connectivity options based on the host platform environment.

Modularity

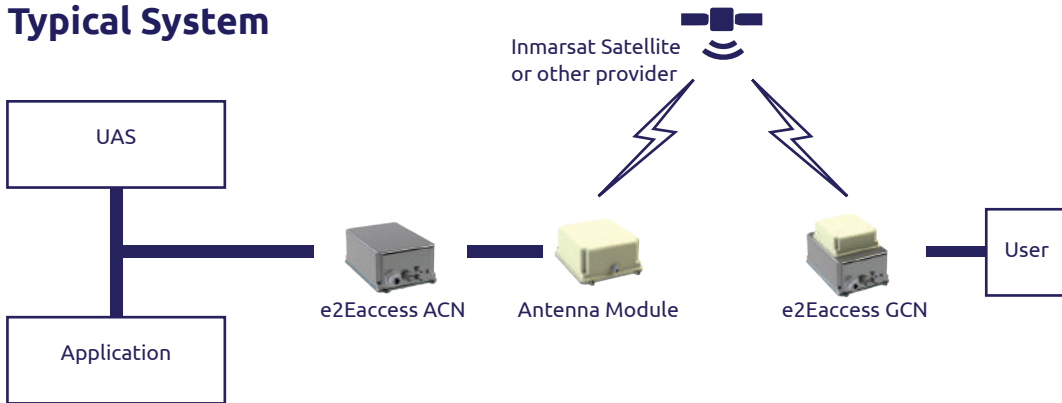
Open architecture allows clients to customise the design of the node to their specific needs.

The logo for e2Eaccess, featuring a stylized 'e' and 'E' with a registered trademark symbol.

Lightweight and adaptable connectivity. Everywhere

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Typical System



Operating Specifications

Dimensions

Ground Node = 160 x 130 x 120 mm

Air Node = 160 x 110 x 63 mm

Antenna Module = 90 x 110 x 60 mm

GCN = 900g, ACN = 760g, AM = 210g

Weight

Data Rates Supported

9.6kbps (BVLOS)

Total Power Consumption (Tx)

<20W

Satellite Frequency Bands

L-band

Supported Satellite System

Inmarsat (adaptable to other systems)

Supported External Interfaces

Ethernet

Standard M&C Interfaces

Web Browser

G/T (with Patch Antenna)

-24db/K

DC Power Source

9-36V with optional main A/C converter

Applications



Contact for Further Information

e2E Headquarters
1st Floor,
3 Silver Court, Watchmead,
Welwyn Garden City, Herts,
United Kingdom, AL7 1LT

Tel: +44 (0) 1707 636 030
Email: enquiries@e2egroup.co.uk

e2E Gateshead
Yours Business Networks,
7-8 Delta Bank Road,
Metro Riverside Park, Gateshead
United Kingdom, NE11 9DJ

Tel: +44 (0) 1707 636 030
Email: enquiries@e2egroup.co.uk