OBU616 DSRC TRANSPONDER

CEN DSRC OBU WITH ENHANCED RELIABILITY AND AXLE DECLARATION



OVERVIEW

The Q-Free OBU616 is an advanced on-board unit specially developed to cover the need for declaration and storage of truck axles. New signal discrimination technology enables immunity to radio frequency (RF) interference from Wi-Fi enables devices around the vehicle.

With its compact form factor and user-friendly human interface, the OBU616 is designed to facilitate easy operation for the vehicle driver and blend unobtrusively into the interior of the vehicle. Low-power technology ensures low current draw while supporting fast 5.8 GHz CEN TC278 compliant DSRC processing.

The OBU616 is based on more than 40 years of experience and proven technology, supporting all current and future 5.8 GHz CEN DSRC protocols.

The OBU616 is easily mounted and removed from the windscreen using a slide-in bracket.

BENEFITS

- User-friendly interface with visual axle count and status indicators
- RF-immune design resistant to Wi-Fi interference
- Low-power technology with ultra-fast DSRC processing
- Long service life through intelligent signal discrimination
- Multi-application support
- Plug-and-play operation
- Smart mounting bracket with private-label options
- Ultra-compact form factor

TECHNICAL SPECIFICATIONS

Operating frequency:	5.8 GHz CF
Download bit rate:	500 kbps
Uplink bit rate:	250 kbps
Sub-carrier frequencies:	1.5 MHz (profile 0)
	2.0 MHz (profile 1)
RTTT profiles:	EN 13372 sets A and B
Max communication range:	≤ 10m
Maximum radiated power:	-21.4 dBm (EIRP)
Power supply:	Single battery coin cell
Transaction capacity:	Class A2 ref. ISO 14815
Environmental conditions:	Class H1 ref. ISO 14815
Operating temperature:	-40°C to +85°C
Storage temperature:	-40°C to +40°C
Ingress protection:	IP4X
Dimensions (HWD):	73 x 42 x 21 mm

STANDARDS

CEN TC278:	EN13372
	EN 12253 Physical layer
	EN 12795 Datalink layer
	EN 12834 Application layer
Safety:	EN 60950-1
Environmental:	IEC 60721-3-5 Class 5K3 / 5K4H / 5B1 / 5C1 / 5S1 / 5F1 / 5M3
Applications:	ISO 14906/EN15509 EFC
EU directives:	R&TTE 1995/5/EC
	EMC 2004/108/EC
	LVD 2006/95/EC
	RoHS 2011/65/EU
	WEEE 2012/19/EU

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