

**Technical Specifications of
OBU-1.1: CONTROLLER WITH USB PORT**

Document Title	Technical Specifications
Document Number	VM/RD/TRD OBU-1.1/001
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Subject	Technical Specifications for Controller with USB Port
Purpose	Controller with USB Port
From	Chemito Infotech Pvt. Ltd
To	
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Document Revision No	Date	Title or Brief Description of Changes	Prepared by	Reviewed by	Approved by
1.0.0R00	--	Original Document	Yunoos Desai	Naresh Panchal	Vishwas Punekar
1.0.0R01	08/02/2018	<ul style="list-style-type: none">Added new nomenclature OBU-1.1	Shital Ujjainkar	Naresh Panchal	Vishwas Punekar

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OBU-1.1: CONTROLLER WITH USB PORT



A) DIMENSIONS:

Cabinet Size	178 x 130 x 27 mm
LCD Display	16 Characters x 2 Lines Alpha Numeric

B) INPUT – OUTPUT CONNECTIONS ON REAR SIDE CABLE:

Power Connections	250 series 2 pin connector
Data connections for display	90 Series 2 pin sealed male connector to drive destination displays on RS 485
Route Uploading	4 Pin USB Connector

C) ELECTRICAL PRAMETERS:

Operating Voltage	Nominal: + 24V DC /+ 12 V DC
	Optional: Extended Supply range 9 V to 36 V DC
Power Consumption	0.10 A @ 24V DC
Protection	Power supply input is protected against Reverse Polarity, Over voltage, Cranking voltage, Load Dump
	500 mA Slow Blow External Fuse on cabinet for over current
EMC/EMC	Test complied as per – AIS 004 Part 3
Ambient Environment	Operating temperature: -25°C to +70°C
Humidity	95% RH
Vibration Test	10g as per AIS 012
Ingress protection	IP 55

D) STRUCTURE:

1.	Desktop type PVC Cabinet
2.	Weight – 0.5 kg
3.	Mounting arrangement by wall mounting

E) TECHNICAL SPECIFICATION:

Automotive grade components used, with conformal coated PCB boards
Long Life keypad with 16 keys Numeric, Function and Arrow Keys
Interactive keys for smooth operations
EMBDC supports operation of displays for 5000 routes
Downloading of route file using USB 2.0
Built in memory with 8 GB (1G bytes For Route Files.)

F) PART NO. DESCRIPTION:

Generic	I/P VOLT	Display	KBD	GPS	GPRS	PID	Mike
BC	E-Extended 8~36V	G- Graphic LCD	S-4 Key small KBD	C-Cost Effective Internal	C-Cost Effective Internal	S-With RS485	I-internal preamplifier
		O-OLED	L-Large, Alphanumeric KBD	U-ublox or as Required	U-ublox or as Required	B-with Blue tooth	E-external Preamplifier
		2 - 16x2 Line		E-External	E-External	W-Wireless	N-No mike input
		4 – 16x4 Line		N-No GPS	N-No GPRS	N-No PID	

G) OBU-1.1: Available with Part Number:

Part Number	I/p V	Display	KBD	GPS	GPRS	PID	Mike
BCE2SNNNN	8~36V	16x2 Alpha numeric LCD	4 key small KBD	No GPS facility	No GPRS facility	No PID	No Mike facility
BCE2LNNNN	8~36V	16x2 Alpha numeric LCD	16 key, Large, Alphanumeric KBD	No GPS facility	No GPRS facility	No PID	No Mike facility