

Mobileye® 8 Connect™ | Technical Specification Sheet

Mobileye® 8 Connect™ M	ain Unit	
Physi	cal Characteristics	
Length:	120mm	
Width (without lens):	78mm	
Height:	44mm	
Weight:	200g	
Color:	Black	
Case material:	Aluminum/plastic	
Cable length:	3m	
Cable diameter:	4.8mm	
Electr	ical Characteristics	
Input voltage:	10-36VDC	
Input current min:	12v > 500mA, 24v > 250mA	
Input current max:	12v > 700mA, 24v > 300mA	
Max power:	8.5W	
Environn	nental Characteristics	
Operating temperature:	-20°c to + 85°c	
Storage temperature:	-40°c to +105°c	
	Vision Sensor	
Vision sensor:	OV10642 RCCC CMOS 1.3MP HDR	
Active array size:	1280H x 1080V	
Optical format:	1/2.56"	
Pixel size:	4.2μm x 4.2μm	
Dynamic range:	48° (horizontal)	
Shutter type:	Rolling shutter	
Responsivity:	4.8 V/lux sec (550nm)	
Angle of view:	52° (horizontal) 42° (vertical)	
Focus range:	5m to infinity	
Output interface:	12-bit DVP, MIPI/LVDS CSI-2	
Image transfer rate:	36 fps	
Au	dio Synthesizer	
SPL minimum	86dB @ 10cm	
	n Processor Main Features	
Hyper-thread 64bit RISC in	terAptiv MIPS CPU	
1Gb Ethernet Port		
128MB Flash x 2 (for code n	-	
2 x 1.6GHz, 32bit LPDDR4 SI		
	o and image preprocessing input ports	
1x parallel video image pre	processing input port	
3 x CAN ports (>1Mbps)		
3 x UART ports (5Mbps)		
3 x I2C Interfaces (1Mbs)		
4 x SPI interfaces		
	ufacture Standard	
Mobileye® 8 Connect man	ufactured in ISO/TS 16949 certified sites.	

EyeWatch™ Display Unit		
Physical Cha	racteristics	
Diameter:	49mm	
Depth:	24mm	
Depth (leg closed):	29mm	
Depth (leg open):	66mm	
Weight:	46g	
Color:	Black	
Case material:	Plastic	
Cable length:	3m	
Cable diameter:	3.1mm	
Electrical Characteristics		
Input voltage:	5VDC	
Input current:	50mA	
Environmental Characteristics		
Operating temperature:	-20°c to +80°c	
Storage temperature:	-40°c to +100°c	
Operating humidity:	Up to 95%	
Display Characteristics		
Viewing angle:	100°	
Display colors (backlighting):	LCD full color - 40 mcd (min)	
Resolution:	128x128 pixels	

Full System Electrical Characteristics		
Input voltage	10-36VDC	
Input current (full operation)	12v > 750mA, 24v > 320mA	
Input current (stand-by max)	12v > 0.4mA, 24v > 0.6mA	
Max power consumption	9W	











Mobileye[®] 8 Connect[™] 3G Cellular Module | Technical Specification

3G Cellular Module				
Specification				
GSM / GRPS protocol	3.75G HSPA			
Coverage area:	Global			
Bands:	2G : 850/900/1800/1900 MHz 3G : 800/850/900/1900/2100 MHz			
Data rates:	Up to 7.2 Mbit/s DL Up to 5.76 Mbit/s UL			
Internet Protocol Version	IPv4 / IPv6 dual-stack			
Transport Layer Security	Embedded TLS 1.2			
Certification	GCF/PTCRB/R&TTE/CE/FCC/IC/Anatel/RCM/Giteki			
Telecommunications standards	3GPP TS 27.010			
Serial interface	UART (up to 921,600 bps)			
Power supply	3.3 to 4.4V			
SIM Voltage:	1.8V			
Sim size:	nano SIM 10mm X 12.5mm X 1.2mm			
Environmental Characteristics				
Operating Temperature:	-40°c to + 85°c			
Storage temperature:	-40°c to +100°c			

Mobileye[®] 8 Connect[™] GNSS Module | Technical Specification

Receiver type		
Receive and track multiple GNSS systems:		
Support following satellite GPS, GLONASS, BeiDou and QZSS signals		
Features		
Frequency of time pulse signal [1PPS]	10 Hz	
Module Type:	External module with antenna included	
Installation	Attaches on windshield for free sky view Clock and data backup on sleep mode	
Voltage Operation:	1.65-3.6V	
Dimension:	40mm x 40mm	
Cable length:	250mm	
Environmental Characteristics		
Operating temperature:	-40°c to + 85°c	
Storage temperature:	-40°c to +100°c	

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