

$Mobileye^{\tiny{\circledR}} \ 8 \ connect^{\tiny{\intercal}} - 4G \ | \ Technical \ Specification \ Sheet$

	Mobileye® 8 C	Connect tm Main Unit
PHYSICAL (CHARACTERISTICS	FULL SYSTEM E
Length Width (without lens) Height Weight Color	120mm 78mm 44mm 200g Black	Input voltage Input current (full op Max power consum
Case material Cable length (cab000400) Cable diameter ELECTRICAL	Plastic & Aluminum 3m 5.8mm (±0.2) CHARACTERISTICS	Caution Beware when remove
Input voltage Input current max Max power AMBIEN	10-36VDC 12v > 700mA, 24v > 350mA 8.5w T TEMPERTURE	may be hot. For your safety, plea
Operation Storage temperature	-20°c to +60°c -30°c to +85°c ON SENSOR	
Vision sensor Active array size Optical format Size Dynamic range Shutter type Responsivity Angle of view Focus range	OVI0642 RCCC CMOS 1.3MP 1280H * 1080V 1/2.56" 4.2μm x 4.2μm 48° (horizontal) Rolling shutter 4.8V/lux sec (550nm) 52° (horizontal) 42° (vertical) 5m to infinity	
Image transfer rate	36 fps SYNTESIZER	
Hyper-thread 64bit RIS		
	R4 SDRAM interfaces video and image preprocessing preprocessing input port)	
MANUFAC	CTURE STANDARD	

Mobileye 8 Connect manufactured in ISO/TS 16949

FULL SYSTEM ELECTRICAL CHARACTERISTICS

Input voltage	10-36VDC
Input current (full operation)	1A @ 12V, 0.5A @ 24V
Max power consumption	12W



Caution

Beware when removing the system after operation as it may be hot.

For your safety, please use gloves.



$Mobileye^{\tiny{\circledR}}\,8\,connect^{\tiny{\intercal}}\,-\,4G\mid Display\,unit\,Specification\,Sheet$

EyeWatch Display Units				
PHYSICAL CHARACTERISTICS	EYEWATCH3	EYEWATCH8		
Diameter	49mm	Width 84.5m		
Depth	66mm (leg open)	25mm Leg closed: 34mm Leg open: 73mm		
Height	49mm	57mm		
Weight	46g	109g without cable 146g with cable		
Color	Black	Black		
Case material	Plastic	Plastic & Aluminum		
Cable length	3m	2.5m		
Cable diameter	3mm (±0.2)	3mm (±0.2)		
ELECTRICAL CHARACTERISTICS				
Input voltage	5VDC	10-36VDC		
Input current	50mA	120mA @ 12V		
AMBIENT TEMPERTURE (AS TESTED IN LAB WITH NO RADIATION EFFECT)				
Operation temperature	-20°c to +60°c	-20°c to +60°c		
Storage temperature	-30°c to +85°c	-30°c to +85°c		
Operating humidity	Up to 95%	Up to 95%		
DISPLAY CHARACTERISTICS				
Screen size	1.5"	3.2"		
Contrast ratio	250	500		
Surface luminance	LCD full color – 40mcd (min)	900 cd/ m ²		
Viewing angle	100°	45°/45°/45°/20°		
Resolution	128 x 128 pixels	240 x 320 RGB		
ADDITIONAL FEATURES				
Display colors		262k		
Light sensor for automatic view day/night	Yes	Yes		



$Mobileye^{\tiny{\circledR}}\,8\,connect^{\tiny{\intercal M}}\,-\,4G\mid Cellular\,Module\,Specification\,Sheet$

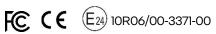
4G Cellular Module		
PHYSICAL CHARACTERISTICS		
Model	Telit LE910C1	
Length	182mm	
Width	55mm (slimmest); 78.6mm in connector area (peak)	
Height	22MM	
Weight	Modem unit: 121.9g Modem cable: 119.3g	
Color	Black	
Case material	PC/ABS	
Cable length	3000mm (±30)	
Cable diameter	6.5mm	
SPECIFICATION		
Protocols	LTE FDD Cat1 (10/5Mbps DL/UL), GSM/GPRS/EDGE, WCDMA up to DC	
Coverage area	Global with several models LE910C1-xx	
Bands	2G: 2, 3, 5, 8 HSPA+: 1, 2, 3, 4, 5, 6, 8, 19 LTE FDD: 1, 2, 3, 4, 5, 8, 12, 13, 14, 18, 19, 20, 25, 26, 28, 28A, 66, 71	
Data rates	Up to 10Mbit/s DL Up to 5Mbit/s UL	
Internet protocols version	IPv4	
Transport layer security	SSL – several TLS	
Certification	WW – depend on each model FCC /IC, PTCRB, (North America) RCM (Australia) Jade/Telec (Japan) RED/GCF (Europe) CCC/SRCC (China) Anatel (Brazil)	
Telecommunications standards	TS 27.005, 27.007 and Telit Custom AT commands LTE FDD Cat.4, 3GPP release 10 compliant LTE FDD Cat.1. 3GPP release 9 compliant	
Serial interface	UART (up to 3Mbps)	
Power supply	12V	
Sim voltage	1.8V	
Sim size	Nano SIM 10mm X 12.5mm x 1.2mm	

$Mobileye^{\scriptsize{\texttt{0}}} \ 8 \ connect^{\tiny{\texttt{TM}}} - 4G \ | \ GNSS \ Technical \ Specification$

RECIEVER TYPE		
Receive and track multiple systems		
Support satellite: GPS, GLONASS, BeiDou and QZSS signals		
FEATURES		
Frequency of time pulse signal	0.25 Hz10 MHz	
Module type	External module with antenna included	
RTC using a crystal	External 32.768 kHz signal to the RTC input Clock and data backup on sleep mode	
Voltage operation	1.65-3.6V	
Dimension	53.5mm x 39.6mm x 17.1mm (width x length x height)	
Cable length	2500mm (±50)	

Mobileye® 8 connect™ – 4G | Certificates





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