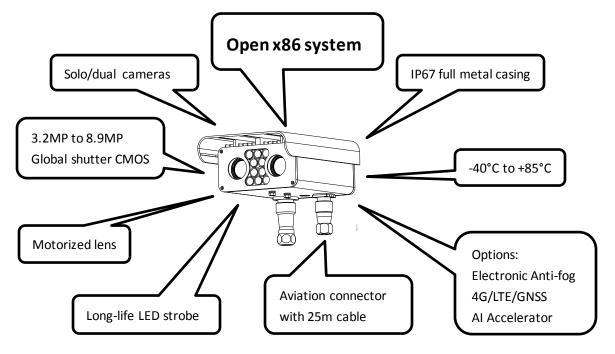
Lynx1 Series All-in-one Smart Camera Brief

Features

- 1. All-in-one design with waterproof IP67 rating
- 2. Open x86 system for user's real-time image analysis algorithm
- 3. Support 3.2MP to 8.9MP global shutter CMOS sensors for grabbing
- 4. Support 1080P rolling shutter CMOS for overview recoding
- 5. Solo/dual cameras for grabbing picture and video stream synchronously
- 6. Solo/dual motorized focusing lens for easy installation
- 7. Long-life LED strobe light for grabbing high-speed vehicles all day
- 8. Wide temperature 4G/LTE and GNSS module (optional)
- 9. Al Accelerator for deep learning (optional)
- 10. Electronic dehumidifying for anti-fog on the glass (optional)
- 11. Support 8-28VDC and PoE+ power supply
- 12. A ready 25m cable with an aviation connector (optional)
- 13. Rugged and compact full metal casing
- 14. Wide operation temperature -40°C to +85°C
- 15. 3-year warranty

Applications

- Red Light Enforcement
- Speed Enforcement
- Bus Lane Enforcement
- Traffic Surveillance
- Intelligent Video Analysis



Profile





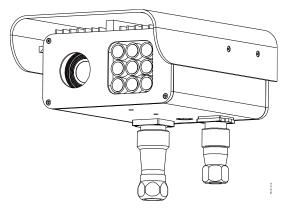


Figure 1-2 Profile of Solo-camera

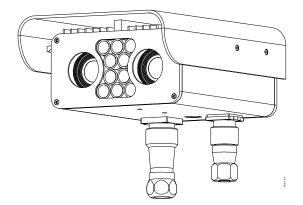


Figure 1-3 Profile of Dual-camera

ROSEEK reserves the right to change without notice.

Specifications

Table 1-1 Specifications

CPU Model Intel® ATOM™ processor E3845, soldered onboard CPU Type 1.91GH2, Quad Cores, 2MB L2 Cache, 64-bit DRAM ^[11] 4GB (default) or 8GB (optional) DDR3L-1333, soldered onboard Storage 64GB eMMC5.1 Flash for OS, soldered onboard Storage 64GB eMMC5.1 Flash for OS, soldered onboard Network Port 1 x HDMI port for development Network Port 1 x KB2.0 Port for development Serial Port 1 x KS232, 1 x non-isolated RS485 1 x decicated RS232 for development User can control the motizad focusing lens via Ethernet even after installation on the pole Lens Control 1 x RS232, 1 x non-isolated RS485 LED Strobes Constant-currentLED drivers with sync to cameras LED Options: NIR (850nm), white (6000K), far-red (740nm), blue(44 Power Sync Power sync to AC main supply Watchdog Timer 1 to 256 second, setup by software Temperature Monitor Embedded Intel® Movidius TM MM2450 AI Accelerator for deep lear Algorithm. ROSEEK provides method for easy development like the Neural Compute Stick 40/LTE, GNSS(optional) Embedded Web Server for remote access via web browser Video Streaming H.264 1080P301ps color video streaming of the overview camera Algorithm. ROSEEK provides method for							
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Power Supply or PoE+ (802.3at type2, 25.5W) PD power supply ^[4] Operation Temperature -40°C to +85°C wild temperature ^[5]							
MTBF 350.000 hours							
Construction Rugged full metal casing, fanless, IP67 rating							
Dimensions and Weight 180x94x250mm, 3.5 kg	180x94x250mm, 3.5 kg						
Regulation CE							

Ordering Information

The underlined option is the recommended option.

<u>R S L</u> aaaa		3.0 S C 3.5 2.4 S C B.4 2.0 N 1.0 0.00 0.0 qq cc d e ff gg h j kk mm nnn ppp qq grabbing camera overview camera LED flash LED flash LED flash LED flash										
aaaa	Lynxse	eries all-in-one smart camera										
b	genera	tion										
	<u>1</u>	the 1stgeneration, based on Intel ATOM™ E3845										
СС	sensor	nsor type of grabbing camera										
	30	SONY IMX265, 3.2MP 1/1.8" global shutter CMOS, max 55.6fps										
	50	SONY IMX264, 5MP 2/3" global shutter CMOS, max 35.7fps										
	<u>80</u>	SONY IMX267, 8.9 MP 1" global shutter CMOS, max 32.2 fps for mono type, and										
		max 25fps for color type										
d	colorof	grabbing camera										
	<u>s</u>	color										
	Μ	mono										
е	filter type of grabbing camera (refer to chapter 6 for details)											
	С	fixed filter, IR-cut filter (Figure 6-1)										
	Р	switchable filters, IR-cut and polarizer (Figure 6-1 and polarizer)										
	К	switchable filters, day/night										
	<u>G</u>	switchable filters, day/night										
ff	lens typ	be of grabbing camera										
	25	focal length 25mm, 8MP, 1" size, motorized focusing										
	<u>35</u>	focal length 35mm, 8MP, 1" size, motorized focusing										
	50	focal length 50mm, 8MP, 1" size, motorized focusing										
	B4	focal length 11-40mm, 8MP, 1/1.8" size, motorized zooming, focusing and										
		iris control, for 3.2MP (IMX265) sensor only										
<u>g</u> g	sensor	type of overview camera										
	<u>24</u>	SONY IMX385LQR, 1080P color 1/2" rolling shutter CMOS, max 30fps,										
		for dual-camera type										
	00	for solo-camera type										
h	colorof	overview camera										
	<u>S</u>	color, for dual-camera type										
	Z	for solo-camera type										
j	filter typ	be of overview camera (refer to chapter 6 for details)										
	С	fixed filter, IR-cut filter										
	K	switchable filters, day/night										
	<u>G</u>	switchable filters, day/night										
	Z	for solo-camera type										

kk	lens type	of overview camera
	00	for solo-camera type
	<u>B4</u>	focal length 11-40mm, 8MP, 1/1.8" size,
		motorized zooming, focusing and iris control
mm	beam an	gle of LED flash
	<u>20</u>	20 degrees (reference: cover 2 lanes from 30 meters away)
	40	40 degrees (reference: cover 3 lanes from 20 meters away)
nnn	type of L	ED strobe
	N09	NIR strobe (850nm light), 9 LEDs, for solo-camera type
	<u>N10</u>	NIR strobe (850nm light), 10 LEDs, for dual-camera type
	W09	white strobe (6000K white light), 9 LEDs, for solo-camera type
	W10	white strobe (6000K white light), 10 LEDs, for dual-camera type
	K09	far-red strobe (740nm light), 9 LEDs, for solo-camera type
	K10	far-red strobe (740nm light), 10 LEDs, for dual-camera type
	B09	blue strobe (458nm light), 9 LEDs, for solo-camera type
	B10	blue strobe (458nm light), 10 LEDs, for dual-camera type
ррр	embedd	ed microSD card capacity
	<u>000</u>	No microSD card (default)
	XXX	xxxG-byte microSD card, e.g. 032 means 32GB, 256 means 256GB
qq	special f	unction (optional)

- 00 no special function (default)
- **<u>qq</u>** according to the follow table

Table 1-2 Definition of "qq" (part 1 of 4)

pp qq	0	Ī		~	+	10	6	~	~	6	0	+	2	3	4	5
Functions	00	01	02	03	04	90	90	20	80	60	10	۱,	51	13	71	15
Electronic Anti-fog ^[1]		0		0		0		0		0		0		0		0
8GB DDR3L			0	0			0	0			0	0			0	0
AI Accelerator					0	0	0	0					0	0	0	0
Wi-Fi module									0	0	0	0	0	0	0	0
4G/LTE module ^[2]																
GNSS module																

Table 1-2 Definition of "qq" (part 2 of 4)

qq	9	7	8	6	0	7		~	4	10	0	2	m	6	0	1
Functions	16	1	18	16	20	2,	22	23	24	25	26	27	28	29	30	э́
Electronic Anti-fog ^[1]		0		0		0		0		0		0		0		0
8GB DDR3L			0	0			0	0			0	0			0	0
AI Accelerator					0	0	0	0					0	0	0	0
Wi-Fi module									0	0	0	0	0	0	0	0
4G/LTE module ^[2]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GNSS module																

qq Functions	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
Electronic Anti-fog ^[1]		0		0		0		0		0		0		0		0
8GB DDR3L			0	0			0	0			0	0			0	0
AI Accelerator					0	0	0	0					0	0	0	0
Wi-Fi module									0	0	0	0	0	0	0	0
4G/LTE module ^[2]																
GNSS module	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 1-2 Definition of "qq" (part 3 of 4)

Table 1-2 Definition of "qq" (part 4 of 4)

qq Functions	48	49	50	51	52	53	54	22	99	22	58	69	09	61	62	63
Electronic Anti-fog ^[1]		0		0		0		0		0		0		0		0
8GB DDR3L			0	0			0	0			0	0			0	0
AI Accelerator					0	0	0	0					0	0	0	0
Wi-Fi module									0	0	0	0	0	0	0	0
4G/LTE module ^[2]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GNSS module	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Note:

- [1] The built-in electronic dehumidifier discharges water molecules out of the camera casing, so the internal surface of the front window glass does not fog in cold environments. The anti-fog function takes effect 12 hours after power on. This option is highly recommended if the local temperature is likely to drop below 10 degrees Celsius.
- [2] For different countries, the standard or 4G/LTE is different, so it is necessary to indicate which country to use when ordering.
- [3] There is an internal USB port which is designed for encryption USB dongle. This port is not soldered by default. If needed, please specify when ordering.

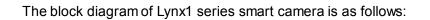
Recommended Part Number

Lynx1 series smart cameras have powerful functions and also complex part number. In order to easy selection, the following part numbers are recommended.

Part Number RSLX1-80SK35-24SGB4-20N10-000-01 Application: General dual-camera ITS usage. It can grab color pictures Description of upto 250km/h vehicles during the day, and mono license plate with NIR flash at night. At the same time it can record the color overview video stream in H.264 format. Also it can run own algorithm with x86 CPU to analyse the images, such as ANPR. Grabbing camera: 8.9MP color 1" global shutter CMOS, with day/night switchable filter, and 8MP resolution 1" fixed-focus 35mm F1.4 motorized focusing lens Overview camera: 2MP 1080p color 1/2" rolling shutter CMOS, with day/night switchable filter, 11-40mm motorized zooming and motorized focusing lens LED flash: NIR (850nm) flash with 10 LEDs, 20 degrees **Others:** Electronic anti-fog function Part Number RSLX1-30SK35-00ZZ00-20N09-000-01 Description Application: General solo-camera ITS usage. It can grab color vehicles pictures of upto 250km/h during the day, and mono license plate with NIR flash at night. It can run own algorithm with x86 CPU to analyse the images, such as ANPR. Also it can achieve 1080p H.264 video streaming. Grabbing camera: 3.2MP color 1/1.8" global shutter CMOS, with day/night switchable filter, 11-40mm motorized zooming and motorized focusing lens. Overview camera: None LED flash: NIR (850nm) flash with 9 LEDs, 20 degrees

Others: Electronic anti-fog function

System Block Diagram



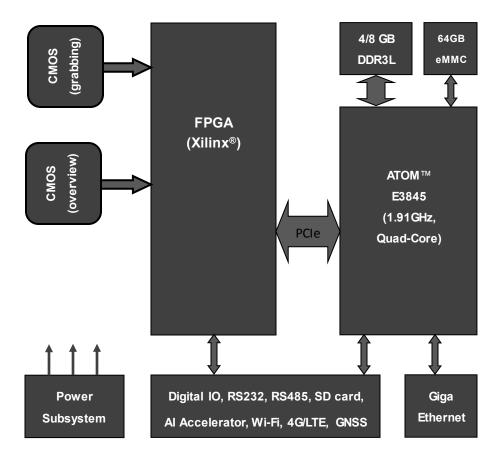


Figure 1-4 System Block Diagram

Available Accessories

Table 1-3 Available Accessories

P/N	Description	Note
RSAN090N	A ready 25m cable with an aviation connector	Weight 2.2kg. Refer to Figure 1-5
RSAN100N	A large omni-directional bracket	Weight 0.7kg. Refer to Figure 1-6



Figure 1-5 the Ready Cable (P/N: RSAN090N)



Figure 1-6 the Omni-directional Bracket (PN: RSAN100N)

Dimensions

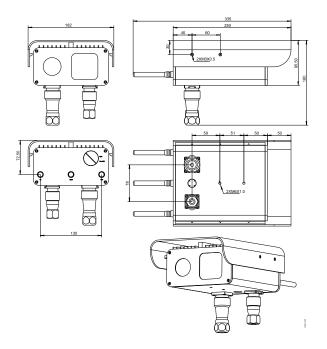


Figure 1-7 Dimensions of Solo-camera with antennas

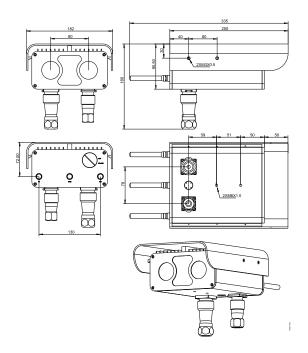


Figure 1-8 Dimensions of Dual-camera with antennas

Note:

- [1] Unit: mm
- [2] Materials: aluminum alloy with anodizing process
- [3] Color: silver