



Open Frame Tablet Roadmap

Agenda

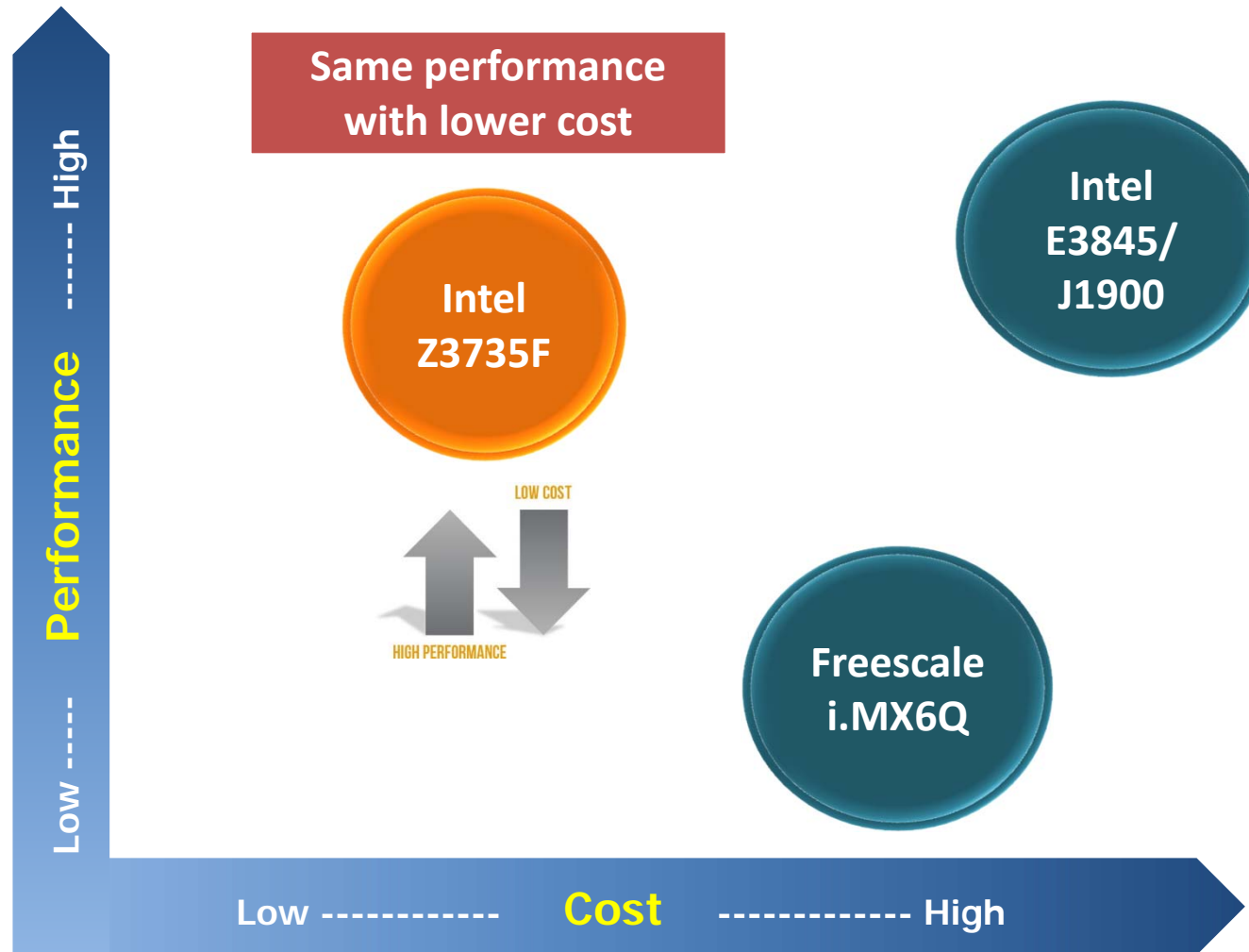
- **Why Open Frame Tablet**
 - Benefits
 - Application
- **Avalue OFP Series**
 - Overview/Features/Spec.
 - Benchmark
 - Roadmap

Why Open Frame Tablet

- More and more demands on intelligent design
- High performance with lower cost
- Fanless / Slim / Fully Flat/ wall mount
- Easy to fit in various applications
- Compatible with multi-platform:
 - Windows: 8.1/ 10
 - Android: 4.4/ 5.1



Performance V.S. Cost



Fanless /Slim /Fully Flat

Slim design

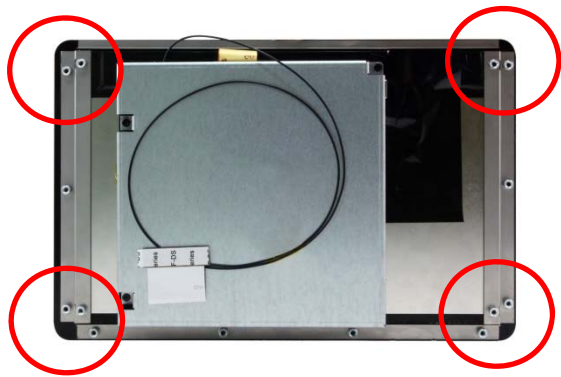


- Slim type design for any attractive decoration
- Fully flat touch screen can be cleaned and operated easily
- Efficient integration into any embedded applications
- Projected capacitive touchscreen, with Multi touch



From Intel's prototypes of kiosks

Install/Wall mount Design

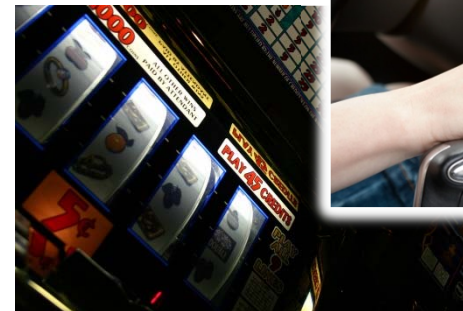


Rear mounting with integrated bracket design for easy installation with Screws



Open Frame Applications

- Kiosk
- Fitness
- Vending Machine
- Gaming
- Queue Management
- Digital Signage
- Home Automation
- Conference Display



Multiple OS Support



OFT/OFP Series

System Overview



Size: 7", 10.1", 15.6", 20", 23.6"

Project Capacitive Touch

Easy Installation (In Wall, Kiosk)

Support Ethernet, WIFI, BT4.0

Optional POE, Battery Charger

Intel
Z3735F

8GB or
32GB
eMMC

2GB
DDR3L

RS232
Or
RS485

Micro
SD
Socket

OFT/OFP Series

System Features

- 7", 10.1", 15.6", 20", 21.5" (Optional), 23.6" Open Frame Tablet
- True Flat Design, Easy Installation for In-Wall & Kiosk Application
- Intel Atom Bay Trail-T CR Z3735F 1.83GHz Quad Core CPU on Board
- 8GB or 32GB eMMC on board / Micro SD Socket, support SDXC
- WIFI(802.11B/G/N) & BT4.0 onboard
- Touch board interface
(Power/ Brightness/ Volume/ LED)
- 16Bit programmable GPIO
- 10/100 Ethernet, Support WOL & PXE Boot (except OFT-07W01)
- RS232(TX/RX) or RS485(Auto Direction Control) (except OFT-07W01)
- Optional Power Over Ethernet 802.3AT (except OFT-07W01)
- Optional Battery Charger (except OFT-07W01)
- Typical DC 19V Input, Optional 12V & 24V support



Marketing for Digital Signage, HMI, Vending Machine, Fitness

OFP Series

Board Specification

	Specification
Processor	Intel® BayTrail-T/CR Quad Core Z3735F
System Memory	2GB DDR3L RAM
Storage	8GB or 32GB eMMC
	RF
WIFI	WIFI 802.11 b/g/n/
BT	Blue tooth 4.0
	Internal I/O
MIO	1xRS232 (TX/RX) or RS485 (Auto Flow control) (except 7")
	1x16 bit GPIO interface
	1xUSB interface
	1xI2C interface (except 7")
	1xeDP & Dual channel 24bit LVDS
	1xbacklight control & power
	2xspeaker interface (1.2W stereo)
	1xA-MIC interface
	1xTouch Button connector
	1xDC input 4pin header
1xOptional Battery connector (except 7")	

OFP Series

System specification

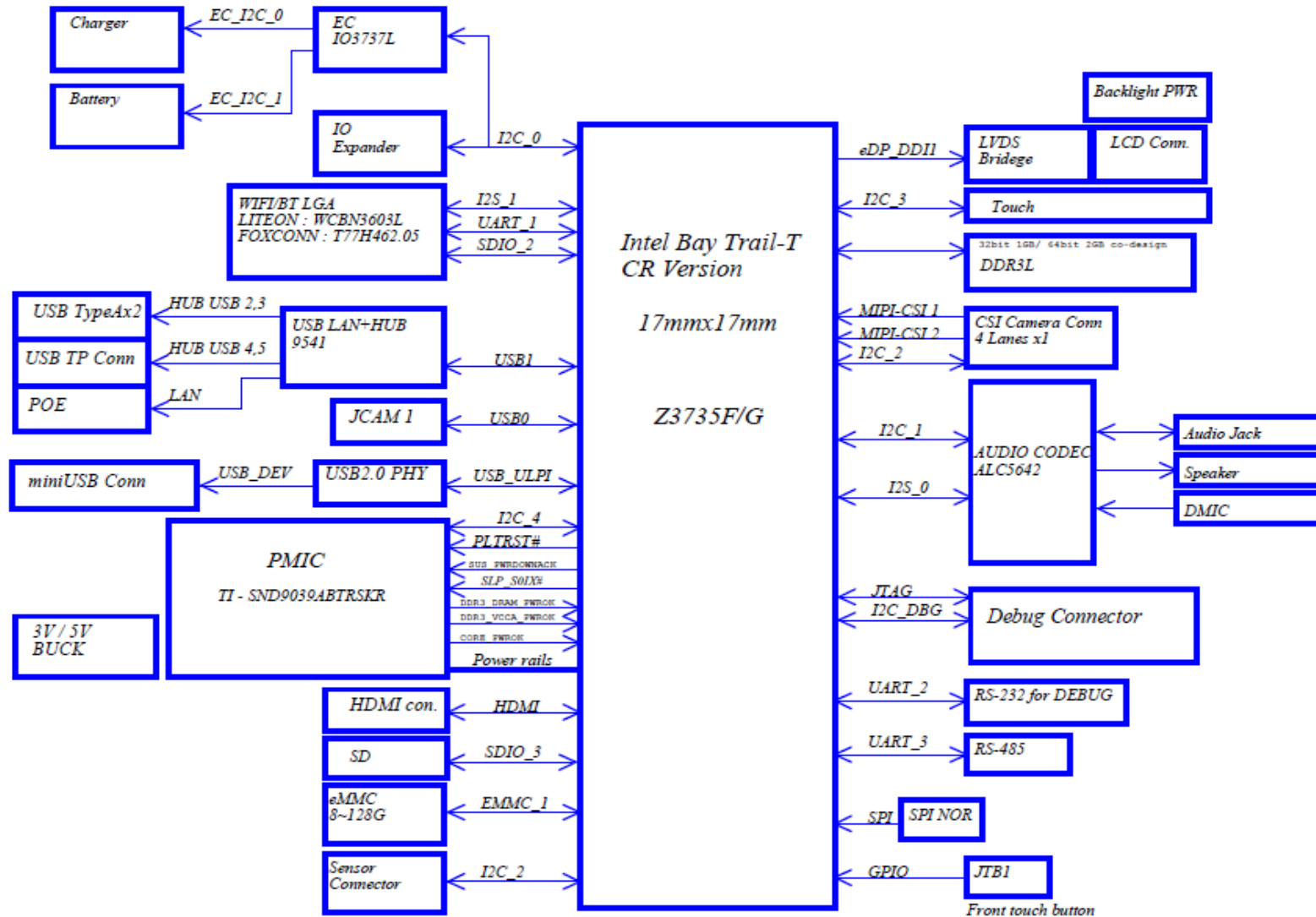
	External I/O
USB	2 xUSB 2.0
	1 xmicro USB Client
LAN	1 x10/100 Ethernet (except 7")
Display	1 xHDMI
Audio	1 xHead phone jack
SD	1 xMicro SD slot
Power-in	1 xDC jack
	Mechanical & Environmental
Power Requirement	19V DC input Optional 12V/ 24V DC input
Power Type	DC Jack DC input 4pin header Optional POE 802.3AT (except 7") Optional Battery (except 7")
Operating Temp	0°C ~ 40°C
Storage Temp	-20°C ~ 60°C
Operating Humidity	0% ~ 90% Relative Humidity, Non-condensing
	Certifications
Certification Information	CE
	FCC Class B
	VCCI

OFP Series

LCD Characters

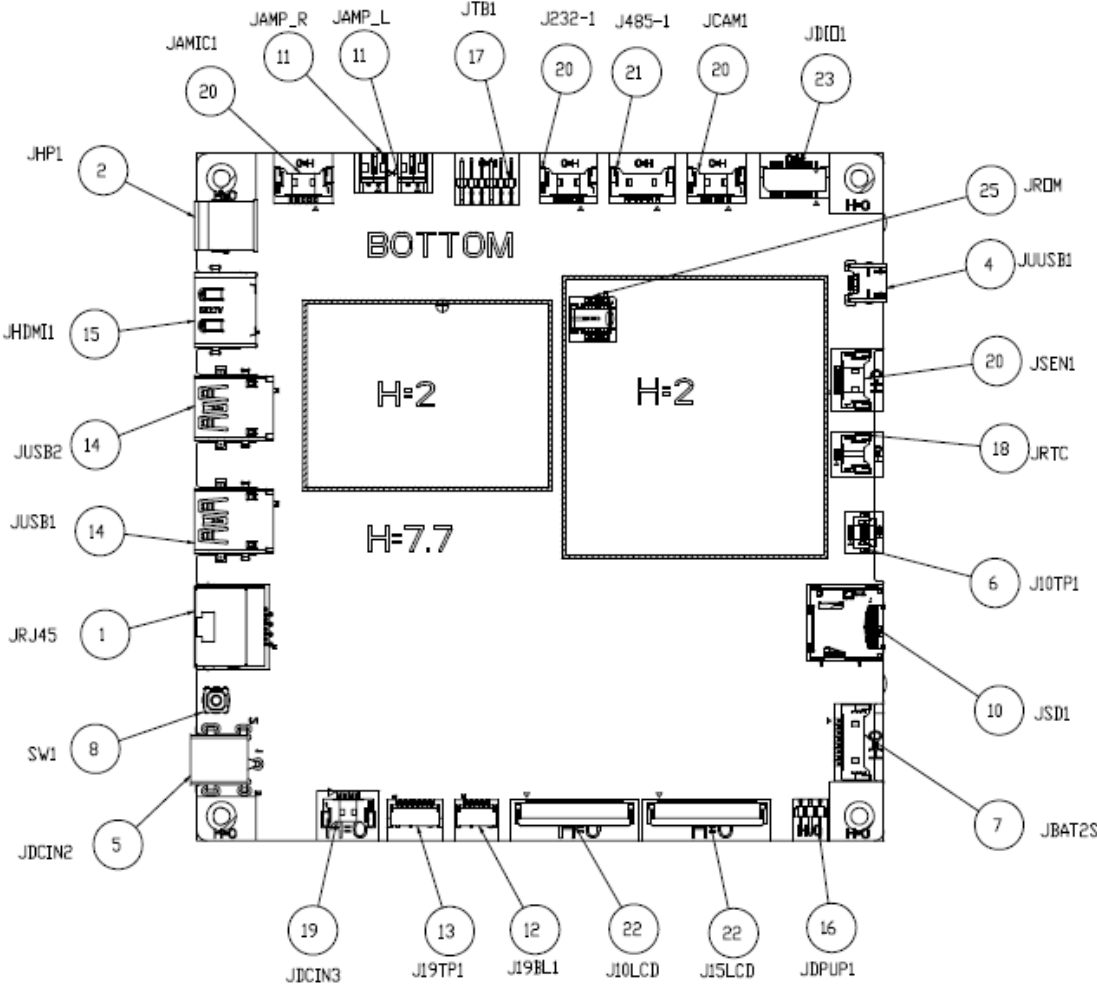
Panel				Touch		
Size	Resolution	Luminance	View Angle	Touch	Bonding	Surface hardness
7"	1280x800	300	165° (H/V)	PCAP	Air bonding	6H
10.1"	1280x800	350	170° (H/V)	PCAP	Air bonding	6H
15.6"	1366x768	200	90°(H)/ 65°(V)	PCAP	on-cell	6H
20"	1920x1080	250	178°(H/V)	PCAP	in-cell	6H
23.6"	1920x1080	250	178°(H/V)	PCAP	in-cell	6H

OFFP Series Diagram



OFF Series

Placement



Baytrail T-CR Specification

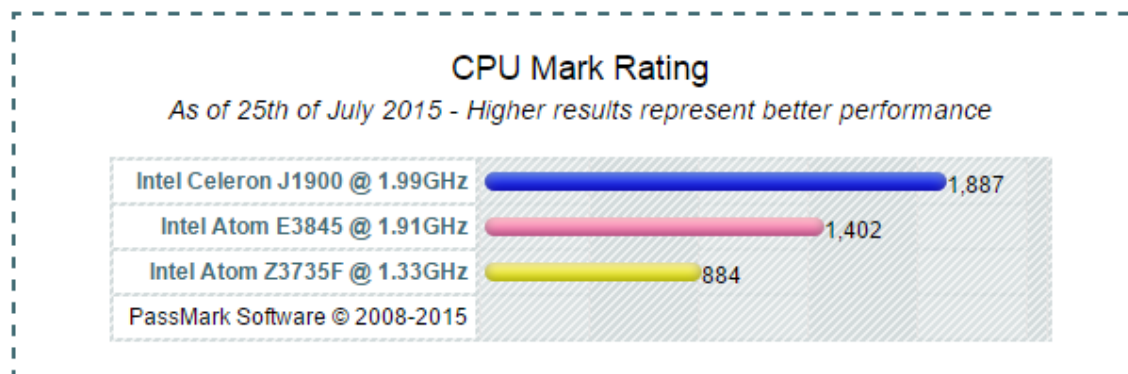
Intel® Atom™ Processor Z3735F (2M Cache, up to 1.83 GHz)	
Essentials	
Status	Launched
Launch Date	Q1'14
Processor Number	Z3735F
L2 Cache	2 MB
Instruction Set	64-bit
Lithography	22 nm
Performance	
# of Cores	4
# of Threads	4
Processor Base Frequency	1.33 GHz
Burst Frequency	1.83 GHz
Scenario Design Power (SDP)	2.2 W
Graphics Specifications	
Processor Graphics ‡	Intel® HD Graphics
Graphics Base Frequency	311 MHz
Graphics Burst Frequency	646 MHz

Benchmark

	Intel ATOM Z3735F	Rockchip RK3188	Freescall i.MX6Q
	Quad core @ 1.33 GHz (Burst 1.83GHz)	Quad Core Cortex-A9 @ 1.6GHz	Quad Core Cortex-A9 @ 1.0GHz
Antutu 5.X			
Overall	29851	21900	11104
Multitask	3947	4438	2049
Runtime	2064	1352	713
RAM Ops	2158	2303	1018
RAM Speed	3281	1179	519
CPU Integer (multi-thread)	3035	2048	938
CPU float-point (multi-thread)	2984	2403	1098
CPU Integer (single thread)	1572	1303	636
CPU float-point (single thread)	1696	1450	693
2D Graphics (1920x1080)	1346	1052	609
3D Graphics (1920x1080)	5904	3013	312

Benchmark

	Intel Atom E3845 @ 1.91GHz	Intel Celeron J1900 @ 1.99GHz	Intel Atom Z3735F @ 1.33GHz
Price	Search Online	Search Online	Search Online
Socket Type	FCBGA1170	FCBGA1170	UTFCBGA592
CPU Class	Desktop	Desktop	Laptop
Clockspeed	1.9 GHz	2.0 GHz	1.3 GHz
Turbo Speed	Not Supported	Up to 2.4 GHz	Up to 1.8 GHz
# of Physical Cores	4	4	4
Max TDP	10W	10W	4.4W
First Seen on Chart	Q2 2014	Q1 2014	Q2 2014
# of Samples	9	85	60
Single Thread Rating	396	527	318
CPU Mark	1402	1887	884



OFF Series

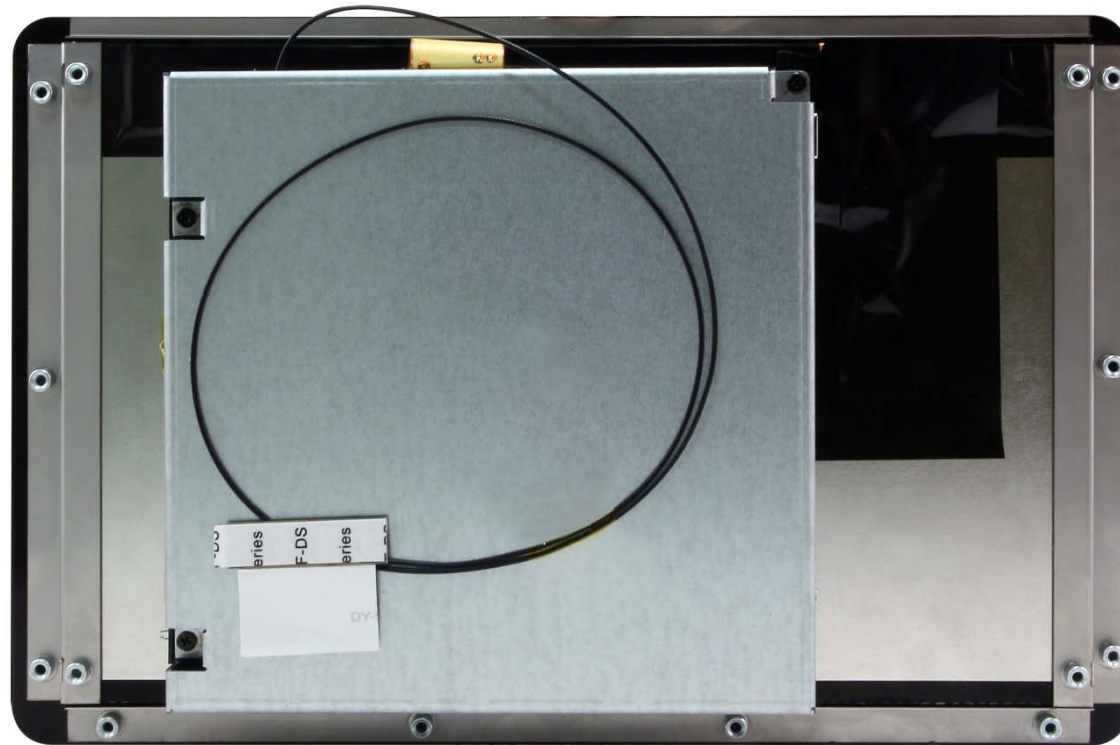
Gallery



Front view of 10.1" open frame Tablet

OFFP Series

Gallery



Back view of 10.1" open frame PPC

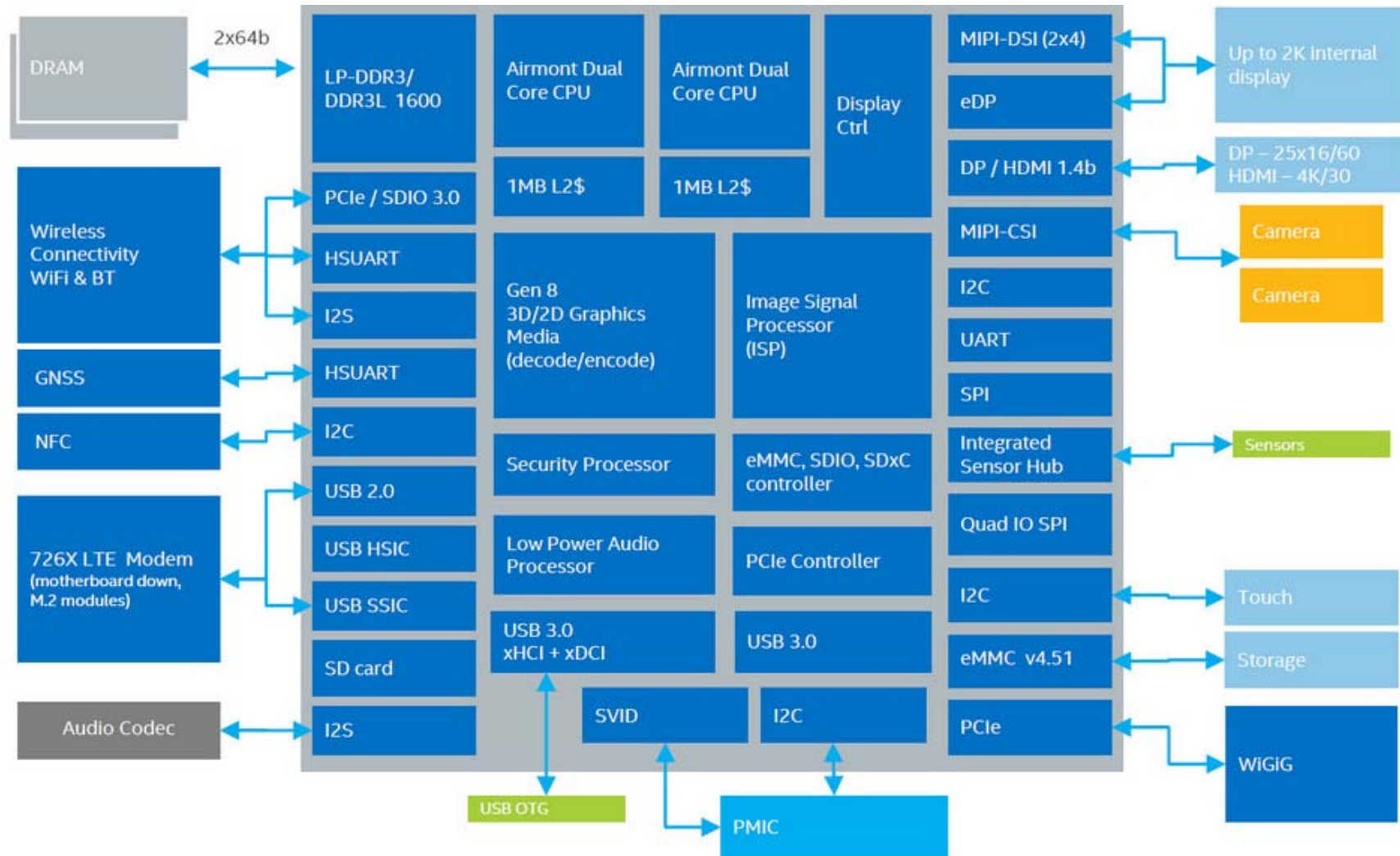
OFF Series

Gallery



Side view of 10.1" open frame PPC

Intel Cherry Trail Atom X7/X5 Block Diagram



Open Frame Tablet Roadmap

OFT-07W01

BayTrail-TCR, 2GB RAM, 32GB eMMC,
PCAP Touch, WIFI/ BT

7" open frame PPC with
CherryTrail CR

OFP-10W01

BayTrail-TCR, 2GB RAM, 32GB eMMC,
PCAP Touch, WIFI/ BT

10.1" open frame PPC with
CherryTrail CR

OFP-15W04

BayTrail-TCR, 2GB RAM, 32GB eMMC,
PCAP Touch, WIFI/ BT

15.6" open frame PPC with
CherryTrail CR

OFP-20W01

BayTrail-TCR, 2GB RAM, 32GB eMMC,
PCAP Touch, WIFI/ BT

20" open frame PPC with
CherryTrail CR

OFP-23W01

BayTrail-TCR, 2GB RAM, 32GB eMMC,
PCAP Touch, WIFI/ BT

23.6" open frame PPC with
CherryTrail CR

Available

Developing

Planning

2015 Q3

2015 Q4

Forecast

2016 Q4



Digital Signage

Medical
Medical

Gaming

全心全意 成就客戶

Dedicate to Customer's Success

