MODEL NAME : *EDW40*

PCB NO : *LA-H451P*

BOM P/N : *451AFX31L01 (DIS I3 4G)*
451AFX31L02 (DIS I3 8G)
451AFX31L03 (DIS I3 16G)
451AFX31L04 (DIS I5 4G)
451AFX31L05 (DIS I5 8G)
451AFX31L06 (DIS I5 16G)
451AFX31L07 (DIS I7 4G)
451AFX31L08 (DIS I7 8G)
451AFX31L09 (DIS I7 16G)
451AFX31L10 (UMA I3 4G)
451AFX31L11 (UMA I3 8G)
451AFX31L12 (UMA I3 16G)
451AFX31L13 (UMA I5 4G)
451AFX31L14 (UMA I5 8G)
451AFX31L15 (UMA I5 16G)
451AFX31L16 (UMA I7 4G)
451AFX31L17 (UMA I7 8G)
451AFX31L18 (UMA I7 16G)
451AFX31L19 (DIS I7 16G QS)

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Schematic Document

(Omega Prime Comet Lake U)

Pilot
2019-07-15A
Rev: 1.0 (A00)

BOM Structure

PCB@ : PCB PN
UMA@ : No GPU SKU
DIS@ : GPU SKU
PRE_EVT@/EVT@/DVT1@/DVT2@/PILOT@ : Board ID
2G_G5@/N17H2G@/N17M2G@ : VRAM type
RTD3@ : TBT RTD3 Component
G3@ : EC G3 Sharing Mode
MAF@ : Master Attached Flash Sharing Mode
WWAN@ : WWAN Component
JEFF@ : Intel WLAN Jefferson Peak
TS@ : Touch Screen Component
FFS@ : Free Fall Sensor
XDP@ : XDP Component
DEBUG@ : Debug Component
CONN@ : Connector Component
@ : Un-pop Component
@RTD3@ : TBT RTD3 Un-POP Component
@WWAN@ : WWAN Un-POP Component
EMI@/ESD@/RF@ : EMI, ESD and RF Component
WWAN@RF@/WWAN@EMI@/WWAN@ESD@ : RF, EMI and ESD Component for WWAN
DISRF@ : RF Component for GPU
TS@RF@ : RF Component for Touch Screen
@EMI@/@ESD@/@RF@ : EMI, ESD and RF Un-POP Component
@WWAN@RF@/@WWAN@EMI@ : RF and EMI Un-POP Component for WWAN
S4G@/S8G@/S16G@/M4G@/M8G@/M16G@/S4G@/S8G@/S16G@ : LPDDR3 type

Security Classification		Compal Secret Data		*Compal Electronics, Inc.*
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				Cover Page
				Document Number
				LA-H451P
Date:	Monday, July 15, 2019		Sheet 1 of 100	Rev 1.0

256Mx32 *2 =2G

512Mx32 *2 =4G
1024Mx32 *2 =8G
2048Mx32 *2 =16G

VRAM * 2 GDDR5 2GB P35-36

GPU NV N17S-G2 GB2C-64 P27-P31

LPDDR3 x32 Memory Down Channel A 2133 MT/s Two DRAM Packages P23

LPDDR3 x32 Memory Down Channel B 2133 MT/s Two DRAM Packages P24

PCIE x4 Port 5~Port 8

LPDDR3 Channel A

LPDDR3 Channel B

HDMI2.0 Conn. P40

PCON Parade-PS186 P40

USB3.0 TypeC P46

PD TI 65987 I2C2 P44 I2C1

TBT Titan Ridge SP P42-P43

CIO

VBUS/CC

I2C Port 2

PCIE x 4 Port 13~Port 16

DDI Port 1~Port 2

eDP1.4a x2

Touch - I2C Port 0

eDP CONN. 14'' FHD P38

Intel CPU Comet-Lake-U 15W BGA 1528 balls 46 x 24 mm PCH-LP P6-17

USB 2 (TOP/BOT)

I2C Port 1

To EC

USB 2 MUX TS3DS10224 P45

USB2.0 Port 3

CNVi

WLAN SIP Module (WLAN+BT5.0) INTEL Harrison Peak P52

M.2 Slot C Key-M (SATA/PCIe SSD) P68

PCIE x 4 Port 9~Port 12

SATA Port 1

USB3.0 Port 3

USB2.0 Port 1

USB3.0 Port 4

USB2.0 Port 2

USB 3.0 Type-A

USB 3.0 Type-A

IO board

PCIE x 1 Port 2

M.2 Slot B Key-B (WWAN only) FIBOCOM L860 P53

Nano SIM Conn. P53

SPKR Conn.

Universal Audio Jack

I/O Board

HDA Codec ALC3204

HDA

USB2.0 Port 5

Finger Print P66

SDXC-SD 3.01

uSD Conn. P70

SPI Flash (BIOS 32MB) P8

SPI (G3 mode)

SPI Port 0

USB2.0 Port 6

Digital Camera P38

G-Sensor LNG2DMTR P66

ISH_I2C Port 0

DMIC

DMIC P38

Camera module

IR CAM ALS sensor P38

I2C Port 1

Touch Pad P63

eSPI

PWM

FAN I/O Board

IR CAM P-sensor P38

LED P63

Lid P63

MEC 1515 KBC P58

I2C Port 0

Thermal Sensor NCT7718W P66

P-Sensor SX9324 P60

SPI

SMBus

KB Conn. P63

Charger P83

Battery Conn. P82