Intel CONFIDENTAL for use under NDA TGL Power Map --- Please defer to component EDS/datasheet for offical numbers. Non-Intel devices are current estimates. Updated: 2020-August Voltage Regulators (VRs) Load Switches (LS) **Load Summary** RAIL NAME V_{OUT} I_{TDC} SUB-RAIL NAME Enable Max R_{dsON} LOAD NAME VCCIN (IMVP9) VR_EN VDC SVID 65.00 A 43.00 A VCCIN (IMVP9) SVID 65.00 A GL SKU: UP3-R 4+2 28W n: Deen Sleen Fnahlen SLP SUS# VDC VID 27.00 A 14.00 A VCCIN AUX 1.80 V 27.00 A Memory: 32GB DDR4 3200 MT/s PD Tier: Premium Connected Standby Wake on Voice Capability V1.05A (internal rail in PCH FIVR) SLP S3# PCH FIVR 1.050 V 0.50 A CPU_C10_GATE# PCH FIVR 1.050 V 1.20 V SLP_S4# VDC 1.20 V 9.40 A 1.20 V 1.50 A Adapter Non-NVDC DDR_VTT_CTRL VDC 0.60 V 0.40 A 0.60 V 0.40 A Charger SLP S4# VDC 2.5V 2.50 V 1.00 A NVDC SLP SUS# VDC 1.80 V 1.30 A 1.80 V V1.8A_FLASH V1.8A_EC Battery 1.80 V N/A 1.80 V N/A V1.8A 1.80 V N/A V1.85_PLATFORM *CCG recommends NVDC charger and 2SvP hattery for better SIP SO# && SIP S3# V1 8A V1.8S_SSD V1.8S_SDCARD 1.80 V N/A VR performance, however traditional 3SxP battery and non-1.80 V N/A NVDC charger may implemented in some designs V1 8Dv WIFI 1 80 V 0.000 Δ V1.8S_AUDIO GPIO AUDIO V1.8A N/A V1.85 AUDIO 1.80 V V1.8S SENSORS 1.80 V N/A SoC Power Levels SLP_SUS# VDC 1.05 V 0.20 A VCC_V1P05EXT_1P05 1.05 V 0.20 A 66 value for a definiion VDC VDC 3.30 V 0.20 A 3.30 V → 1 V3.3A (PCH) VCCPRIM_3P3 V3.3_DSW 3.30 V 0.202 A /3.3A_EC 3.30 V N/A SLP_S3# 3.30 V → ¥ V3.3Dx_PLATFORM V3.3Dx_SSD V3.3Dx_EDP V3.3Dx_DPWP V3.3Dx_TOUCHS Note: Use of a GPIO+BIOS control is also allowed; consult PDG. SLP_S0# && SLP_S3# V3.3_DSW 3.30 V N/A VR Naming Convention 3.30 V N/A **Engerized States** 3.30 V N/A On in SO, SOix N/A On in S0 - S3 V3.3Dx_CAMERA 3.30 V N/A On in S0 - S5 On in S0 - DS4/DS5 N/A V3.3Dx WIFI 3.30 V N/A

SLP SUS# VDC 5.00 V 2.00 A

V3.3S_AUDIO

V5S_PLATFORM

VDCDx_EDP

V3.3Dx_MODEM

V3.3S_AUDIO

V5S_AUDIO V5Dx_HDMIWP

V5Dx USBWP

V3.35 SENSORS

V3.3 DSW

V5A

VDC

SLP S3#

3.30 V

3.30 V 3.30 V

5.00 V

5.00 V

5.00 V

5.00 V

VDC

N/A

N/A

N/A

N/A

N/A

N/A

2,000 A