21. A method of manufacturing, comprising:

receiving a laminate sheet comprising a plurality of information carrying cards formed integrally therein;

inspecting the laminate sheet to identify a location of each of the plurality of information carrying cards within the laminate sheet;

generating information corresponding to the location of each of the plurality of information carrying cards; and

separating the plurality of information carrying cards from the laminate sheet using the information corresponding to the location of each of the plurality of information carrying cards.

22. The method of claim 21, comprising forming the laminate sheet prior to receiving the laminate sheet.

23. The method of claim 22, wherein forming the laminate sheet comprises:

receiving a frame defining a plurality of cavities, wherein the frame comprises a first material;

positioning at least one core layer within at least one of the plurality of cavities, wherein the at least one core layer comprises a second material, and wherein the second material includes a metal;

forming a printed layer above the at least one core layer; and

laminating the frame, the at least one core layer, and the printed layer to generate at least one information carrying card.

24. The method of claim 21, wherein inspecting the laminate sheet comprises imaging the laminate sheet with an imaging modality, wherein the imaging modality is configured to identify the location of each of the plurality of information carrying cards.

25. The method of claim 24, wherein the imaging modality comprises a non-visible spectrum imaging modality.

26. The method of claim 21, wherein generating the information corresponding to the position of each of the plurality of information carrying cards comprises forming at least one

marking on the laminate sheet, wherein the at least one marking corresponds to the position of at least one of the plurality of information carrying cards.

27. The method of claim 21, wherein generating the information corresponding to the position of each of the plurality of information carrying cards comprises generating a mapping file comprising position data corresponding to the position of at least one of the plurality of information carrying cards.

28. The method of claim 21, wherein separating the plurality of information carrying cards comprises guiding a singulation mechanism to remove material from a periphery of each of the information carrying cards in the laminate sheet, wherein the singulation mechanism is guided by the information corresponding to the position of each of the plurality of information carrying cards.

29. The method of claim 28, wherein a predetermined portion of each of the information carrying cards is removed from the periphery of the information carrying card by the singulation mechanism.

30. The method of claim 29, wherein the predetermined portion is selected such that an edge of a core layer of the information carrying card is exposed after the information carrying card is removed from the laminate sheet.

31. The method of claim 21, comprising finishing an edge of the information carrying card to have a predetermined geometry.

32. The method of claim 21, wherein a location device is configured to inspect the laminate sheet, a separation device is configured to separate the plurality of information carrying cards from the laminate sheet, and wherein the method comprises transferring the laminate sheet from the locating device to the separation device.

33. A non-transient computer-readable medium having a plurality of instructions stored thereon, wherein the

operate a transfer arm to receive a laminate sheet having a plurality of information carrying cards formed integrally therewith;

operate a location device to locate a position of at least one of the plurality of information carrying cards within the laminate sheet, wherein the location device is configured to generate a mapping file corresponding to the position of the at least one of the plurality of information carrying cards; and

operate a separation device to separate the plurality of information carrying cards from the laminate sheet, wherein the separation device is operated according to the mapping file.

34. The non-transient computer-readable medium of claim 33, wherein operating the location device comprises operating an imaging modality to image the laminate sheet, wherein the imaging modality is configured to identify the location of each of the plurality of information carrying cards, and wherein the imaging modality comprises a non-visible spectrum imaging modality.

35. The non-transient computer-readable medium of claim 33, wherein operating the location device comprises forming at least one marking on the laminate sheet, wherein the at least one marking corresponds to the position of at least one of the plurality of information carrying cards.

36. The non-transient computer-readable medium of claim 33, wherein operating the separation device comprises guiding a singulation mechanism to remove material from a periphery of each of the information carrying cards in the laminate sheet, wherein the singulation mechanism is guided by the mapping file.

37. The non-transient computer-readable medium of claim 36, wherein a predetermined portion of each of the information carrying cards is removed from the periphery of the information carrying card by the singulation mechanism.

38. The non-transient computer-readable medium of claim 37, wherein the predetermined portion is selected such that an edge of a core layer of the information carrying card is exposed after the information carrying card is removed from the laminate sheet.

39. The non-transient computer-readable medium of claim 33, wherein operating the separation device comprises finishing an edge of the information carrying card to have a predetermined geometry.

40. The non-transient computer-readable medium of claim 33, wherein operating the transfer arm comprises operating a vacuum system formed integrally with the transfer arm to transfer the laminate sheet from the locating device to the separation device.

41. A method of forming a plurality of information carrying cards using a card manufacturing system comprising a transfer arm, a locating device, and a separation device, the method comprising:

transferring, by the transfer arm, a laminate sheet from a loading station to the locating device;

determining, by the locating device, a position of at least one of a plurality of information carrying cards within the laminate sheet;

generating, by the locating device, a mapping file corresponding to the position of the at least one of the plurality of information carrying cards; and

separating the plurality of information carrying cards from the laminate sheet, wherein the separation device is operated according to the mapping file.

42. An information carrying card, comprising:

a core layer including a metal material, wherein the metal material is exposed on at least a first edge of the information carrying card, and wherein the core layer defines a cavity;

an electronics layer disposed in the cavity of the core layer, the electronics layer comprising at least one circuit element; and

a polymer material disposed in the cavity, wherein the polymer material is configured to position the electronics layer and fill the cavity,

wherein the first edge is a finished edge generated during a card singulation process.

43. The information carrying card of claim 42, comprising a printable film disposed over a first surface of the core layer, and wherein the printable film is formed prior to the card singulation process.

44. The information carrying card of claim 43, wherein the printable film includes a plurality of printed elements formed thereon.

45. The information carrying card of claim 42, comprising a transparent film disposed over a first surface of the core layer.

46. The information carrying card of claim 42, wherein the electronics layer comprises at least one printed circuit element.

47. The information carrying card of claim 42, wherein the at least one circuit element is embedded or surface-mounted on a supporting film.

48. A method of manufacturing a laminate sheet, comprising:

receiving a frame defining a plurality of cavities, wherein the frame comprises a first material;

positioning one of a plurality of core layers within each of the plurality of cavities, wherein each core layer comprises a second material configured to be imaged in a non-visible spectrum by a locating device during a card manufacturing process, and wherein the second material is softer than the first material;

positioning at least one additional layer above the core layer; and

laminating the frame, each core layer, and the at least one additional layer to generate a laminate sheet containing a plurality of information carrying cards, wherein each of the plurality of information carrying cards includes one of the plurality of core layers.

49. The method of claim 48, wherein the frame comprises polyvinyl chloride.

50. The method of claim 48, comprising positioning at least one electronic component within an internal cavity defined by at least one the plurality of core layers.

51. The method of claim 50, comprising filling the internal cavity with a filler material to self-level the at least one electronic component.

52. The method of claim 51, wherein the filler material is selected from the group consisting of moly-based material, a polyvinyl chloride material, and a polyethylene terephthalate material.

53. The method of claim 48, comprising applying a surface preparation technique to at least one of the core layer or the at least one additional layer prior to laminating the frame.

54. The method of claim 48, wherein each of plurality of core layers include a first area and an information carrying card including one of the plurality of core layers has a second area, wherein the second area is less than the first area, and wherein a portion each of the core layers is configured to be removed during a card singulation process.

55. The method of claim 48, wherein at least two of the plurality of core layers are connected prior to placement within the frame.

56. The method of claim 55, wherein the at least two of the plurality of core layers are coupled by one or more runners.

57. The method of claim 56, wherein the one or more runners comprises the second material.

58. The method of claim 56, wherein the one or more runners comprises the first material.

59. A method of card manufacturing, comprising:
manufacturing a plurality of laminate sheets, comprising:

receiving a frame defining a plurality of cavities, wherein the frame comprises a first material;

positioning one of a plurality of core layers within each of the plurality of cavities, wherein each core layer comprises a second material configured to be imaged in a non-visible spectrum by a locating device during a card manufacturing process, and wherein the second material is softer than the first material;

positioning at least one additional layer above the core layer; and

laminating the frame, each of the plurality of core layers, and the at least one additional layer;

positioning the plurality of laminate sheets within a loading device;

positioning the loading device adjacent to a card manufacturing system comprising the locating device and a separation device; and

manufacturing a plurality of information carrying cards from each of the plurality of laminate sheets using the card manufacturing system.

60. The method of claim 59, wherein manufacturing the plurality of information carrying cards comprises:

inspecting one of the plurality of laminate sheets to identify a location of each of the plurality of core layers within the one of the plurality of laminate sheets;

generating information corresponding to the location of each of the plurality of core layers; and

removing a predetermined portion of the frame from a periphery of each of the plurality of core layers to singulate the plurality of information carrying cards from the one of the plurality of laminate sheets, wherein the predetermined portion of the frame is removed according to the information corresponding to the location of each of the plurality of core layers.

61. The method of claim 60, wherein manufacturing the plurality of information carrying cards further comprises removing a portion each of the plurality of core layers such that a portion of a corresponding core layer is exposed about an edge of each of the plurality of information carrying cards.

62. The method of claim 59, comprising:

finishing an edge of each of the plurality of information carrying cards; and

transferring each of the plurality of information carrying cards to an unload station.